

TABLE OF CONTENTS

| <u>S</u> | ection | Page |
|----------|--|------|
| 1 | Introduction | 1 |
| 2 | Background | 3 |
| | 2 1 Introduction | 3 |
| | 2 2 Site Description | 4 |
| | 2 3 Site History | 7 |
| | 2 4 Applicability of Other Statutes | 8 |
| 3 | Site Inspection and Analytical Results | 9 |
| | 3 1 Introduction | 9 |
| | 3 2 Site Representative Interview | 9 |
| | 3 3 Reconnaissance Inspection | 9 |
| | 3 4 Soil/Sediment, Surface Water, and Groundwater Sampling | 12 |
| | 3 5 Soil/Sediment Sampling Procedures | 12 |
| | 3 6 Surface Water Sampling Procedures | 18 |
| | 3 7 Groundwater Sampling Procedures | 21 |
| | 3 8 Analytical Results | 23 |
| | 3 9 Key Samples | 25 |
| 4 | Identification of Sources | 25 |
| | 4 1 Introduction | 25 |
| | 4 2 Wastepile | 32 |
| | 4 3 Contaminated Soil | 33 |
| 5 | Discussion of Migration Pathways | 33 |
| | 5 1 Introduction | 33 |
| | 5 2 Groundwater | 34 |
| | 5 3 Surface Water | 36 |
| | 5 4 Soil Exposure | 37 |
| | 5 5 Air Route | 38 |
| 6 | Bibliography | 40 |



LIST OF TABLES

| TABLE | PAGE |
|---|------------|
| 3-1 Sample Descriptions | 26, 27 |
| 3-2 Key Sample Summary | 28 |
| 3-3 Analytical Summary | 29, 30, 31 |
| 5-1 Nearby Population Within One-Mile of the Site | 38 |
| 5-2 Individuals Potentially Exposed to Air-borne Contaminants | 39 |

LIST OF APPENDICES

| APPENDIX | |
|----------|--|
| A | 4-MILE RADIUS MAP |
| В | TARGET COMPOUND LIST |
| С | IEPA SAMPLE PHOTOGRAPHS |
| D | AERIAL PHOTOGRAPHS 1970 IDOT CL-801 Exp 7-63 1988 IDOT MH-88 49-590 1994 IDOT NAPP 49-590 |
| E | U S EPA FORM 2070-13 |

LIST OF FIGURES

| FIGURE | PAGE |
|--|------|
| 2-1 Site Location Map | 5 |
| 2-2 Site Topographic Map | 6 |
| 3-1 Jo Daviess County Map | 11 |
| 3-2 Sample and Photograph Location Map | 13 |
| 3-3 Sample and Photograph Location Map | 14 |
| 3-4 Monitor Well Information | 22 |

1 INTRODUCTION

that the Jo Daviess Service Company (JDSC) site be placed on the Comprehensive

Environmental Responsive Compensation and Liability System (CERCLIS) This action was taken because of the potential for chemical substances associated with the operation of a petroleum storage and manufactured gas facilities to enter the environment and potentially endanger life and health of wildlife and human populations. The potential for adverse environmental impacts are due to the following factors. Several manufactured gas facilities operated on the property from at least 1856 until 1945. A petroleum storage facility operated on the property from 1946 until 1993. Past remedial activities, performed by JDSC in 1993, resulted in a large excavated pit and wastepile which still exist. Past monitor well sampling indicated groundwater contamination moving in the direction of a neighboring resident and the Galena River. The Galena River is located less than 200 feet from the JDSC property.

The JDSC site was evaluated in the form of a CERCLA Integrated Assessment, prepared by Mr Bruce Everetts of Illinois EPA's Site Assessment Unit. The Integrated Assessment consisted of the preparation of a site specific work plan and PASCORE which was submitted to the Region V Office of the U S. Environmental Protection Agency on November 3, 1995. The field activity portion of the Integrated Assessment was conducted on November 20 - 21, 1995. Other Integrated Assessment activities included interviews with site representatives, interviews with residents near the site, a reconnaissance inspection, and the collection of samples on and off the facility property.

The purpose of the Integrated Assessment has been developed from USEPA directive and

guidance information which outlines Site Assessment program strategies. The directive states

The Integrated Assessment will be conducted to 1) Collect data which would satisfy both site assessment and remedial program activities. This would incorporate hazardous waste, surface water, air, and groundwater concerns 2) The objectives of the assessment are to determine whether time or non time critical removals are warranted and to determine whether the site is National Priorities List (NPL) caliber If the determination is made that the site is NPL caliber, additional data will likely be needed to complete the assessment A sampling plan to accommodate removal and site assessment needs as well as initial remedial needs should be developed 3) Determination of site sampling needs will be accomplished with an understanding to assure adequate data for the removal assessment and the preparation of the Hazard Ranking System (HRS) score as well as the need for possible initial sampling for the remedial investigation Based on the preliminary HRS score and removal program information, the site will then either be designated as No Further Action (NFA), or carried forward as an NPL listing candidate Sites that are designated NFA or deferred to other statutes may not be candidates for an Integrated Assessment 4) Upon completion of the data gathering, there will be a determination of whether the site should be forwarded within the Superfund process, either through the remedial or removal programs

The initial assessment of the site as it enters the Superfund program within Region V will be conducted by either a Regional On-Scene Coordinator (OSC) and a Site Assessment Manager (SAM) or by State personnel An OSC and a SAM will be assigned for all new sites entering the Regional Superfund program. If an emergency is found to occur, USEPA or State emergency removal staff will be immediately contacted for action. If the site needs further Superfund activities, a Site Assessment Team (SAT), comprised of the State, the SAM, the Regional Project Manager (RPM), and an OSC will be formed. As necessary, additional data can be generated for the SAT to make a recommendation to the Regional Decision Team (RDT) for further possible action.

The Integrated Assessment will address all the data requirements of the revised HRS using field screening and NPL level Data Quality Objectives (DQO's) prior to data collection. It will also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for NPL listing and that have not been deferred to another authority will receive an Integrated Assessment.

The Region y Offices of the U S Environmental Protection Agency have requested the Illinois Environmental Protection Agency identify sites during the Integrated Assessment investigation that may require removal action to remediate an immediate health and/or environmental threat

A U S Environmental Protection Agency Removal Integrated Site Evaluation Form

which included site specific operations and waste characteristics was completed and forwarded to U.S. Environmental Protection Agency Regional Offices on October 26, 1995. On November 9, 1995 information concerning the site was discussed with U.S. Environmental Protection Agency, Chief of Emergency Response for Illinois, Mr. Donald Bruce. During the discussion, Mr. Bruce was presented information concerning past activities on the property and potentially impacted areas. It was the opinion of Mr. Bruce that the site did not require any removal action nor the assignment of a USEPA Region V Removal Program On-Scene Coordinator (OSC)

Based on initial findings from the Integrated Assessment, and a conversation with Mr Bruce, it was determined that the site does not pose enough of an immediate threat to human health or the environment to warrant a response action. Although no immediate removal threat is presently warranted, further investigation may provide additional information on the nature of the threat at this site. In the event that future analytical information indicates the presence of a potential hazard to human health or the environment, this information will be presented to the Region & CERCLA Removal Program for reassessment of the site.

2 SITE BACKGROUND

2 1 INTRODUCTION

This section includes information obtained over the course of the formal CERCLA

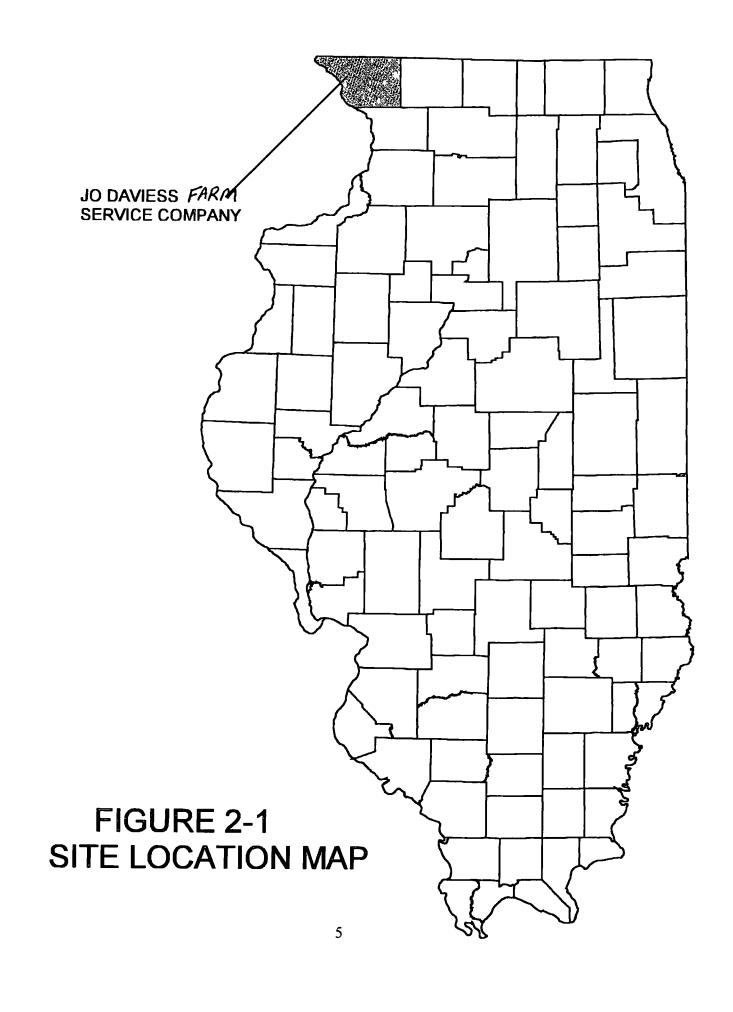
Integrated Assessment and previous Illinois EPA activities involving this site. Specific activities
included an internal file search, a series of site representative interviews, field reconnaissance
inspections, and a sampling visit at the facility and its surrounding area.

2 2 SITE DESCRIPTION

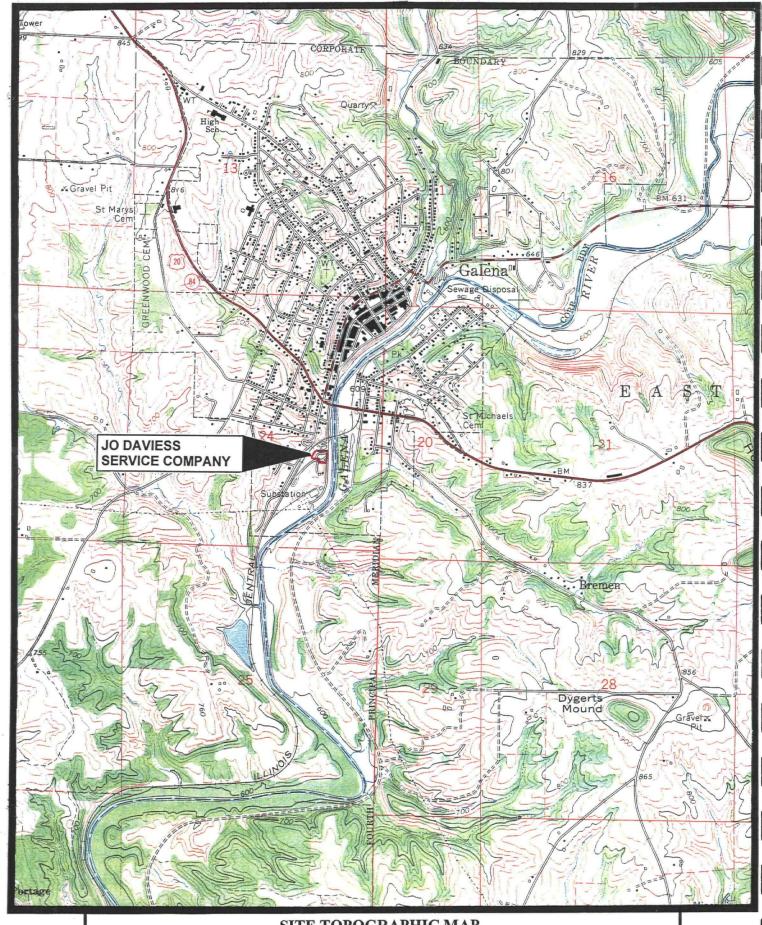
From the mid 1940's to the early 1980's, the JDSC operated a bulk petroleum storage facility on six parcels of property in Galena, Illinois (Figure 2-1) The property includes lots 1, 2, 3, 4, 5, and 6 of Gears Second Addition within Section 24, Township 28 North, Range 1 West of the fourth principle meridian in Jo Daviess County (Figure 2-2) The property occupies approximately 1 1 acres and is situated in a sparsely populated location of southern Galena as it is bordered by railroad tracks to the north and west, South Water Street to the east, and one residential dwelling to the south. The Galena River flows in a north to south direction and is located approximately 200 feet east of the property. The Galena River flows from this location for an additional four miles before entering the Mississippi River near Portage, Illinois

A remedial investigation was performed in 1993 for the JDSC by Dahl and Associates (DAHL) The investigation produced an excavated area located along the northern portions of lots 4 and 5. Aerial photographs from 1970 and 1988 (Appendix D) illustrate, these lots also contained the above ground tanks utilized for the storage of petroleum products by the JDSC. The excavations resulted in an irregularly shaped pit approximately 6 feet deep and 25 feet in diameter. The soil from the excavation was placed to the south of the pit forming a pile approximately 90 feet long, 40 feet wide, and 4 feet high. The pit and wastepile still remain

The topography of the JDSC property consists of level terrain with the exception of two disturbed areas resulting from 1993 remedial activities by DAHL. No buildings or other structures remain on the property. Surface soils consist mostly of cinders in the western portion of the property while the eastern side contains bricks, cinders, and other building debris. The JDSC property is elevated approximately 10 - 15 feet above the Galena River, which is located



108 3



SITE TOPOGRAPHIC MAP

FIGURE 2-2

SCALE: 1:24,000

directly east The closest resident is located approximately 220 feet south of the JDSC property

2 3 SITE HISTORY

According to information from the Jo Daviess County tax assessor, the property in question was acquired by the Galena Gas Light Company on June 18, 1856. Historical Sanborn Fire Insurance Maps (Sanborns) indicate the JDSC property has been utilized by different industries since 1856. From 1856 until 1945, the property was the site of several Manufactured Gas Plants (MGP's) which included Galena Gas Light Company, Gas Light Company of Galena, Northwestern Illinois Utilities, and Northwestern Illinois Gas and Electric Company. Information from the Electric Power Research Institute (EPRI) Journal indicate coal and oil was used primarily for the production of gas. The coal was heated which produced a hot gas containing hydrogen, carbon monoxide, and sulfur compounds. The gas was collected and subsequently sold to customers throughout Galena. The heating of coal also produced large quantities of by-products such as coal tars, sludges, oils and others. Wells, pits, and ponds were constructed to contain these by-products. Sanborns indicate one tar well and a pond were present on the property from at least 1885 until 1924. Other tar wells may have existed but their exact locations are not known.

In 1945, the JDSC purchased the property and operated a bulk petroleum storage facility until 1993. The bulk storage facility consisted primarily of five above ground storage tanks which are no longer present. According to the JDSC, the above ground storage tanks were located on lots 4 and 5 and were utilized for the storage of diesel, gasoline, and fuel oil. The JDSC is still in operation at other locations throughout Jo Daviess County.

On June 21, 1993, Illinois EPA's Rockford Regional Office inspected the JDSC property

Following the IEPA inspection, violations at the JDSC property were listed as causing or
allowing the dumping of fuel on-site and operating a solid waste management site without a
permit granted by the Agency. The JDSC retained the services of DAHL to address the
violations, dismantle the former bulk storage facility, and remove any petroleum impacted soil
from this location. An estimated 250 cubic yards of contaminated soil was removed resulting in
a large pit and subsequent wastepile. The investigation also included test pit installation and soil
sampling, monitor well installation, and a formal report. During the investigation, information
became available which suggested the property was once occupied by several MGP's dating
back to 1856. DAHL concluded the contaminants detected in the subsurface soils were a result
of the past operation of MGP's and there was a high potential for off site migration. No
additional remedial activities have occurred at this site since 1993.

2 4 APPLICABILITY OF OTHER STATUTES

The JDSC property at Galena, Illinois was used for different industrial purposes since the 1850's According to Illinois EPA file information, the facility was not classified as a treatment, storage, or disposal facility under RCRA. Given its years of operation, and the fact that many of the existing state and federal environmental regulations did not come into existence until the late 1970's and early 1980's, it is most likely that this facility was not subject to Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), Atomic Energy Act (AEA), or Uranium Mine Tailings Radiation Control Act (UMTRCA)

3 SITE INSPECTION AND ANALYTICAL RESULTS

3 1 INTRODUCTION

This section outlines procedures utilized and observations made during the field investigation portion of the CERCLA Integrated Assessment, conducted at the JDSC site. Individual subsections address the site representative interview, reconnaissance inspection, field sampling procedures, analytical results, and key sample summary. The Integrated Assessment for JDSC was conducted in accordance with the work plan which was developed and submitted to the USEPA Region V Offices prior to the initiation of field activities.

The U S Environmental Protection Agency Potential Hazardous Waste Site Inspection

Report (Form 2070-13) for JDSC is provided in Appendix E of this report

3 2 SITE REPRESENTATIVE INTERVIEW

On October 31, 1995 Mr Bruce Everetts of Illinois EPA's Site Assessment Unit met with Mr Marion Ertmer, Manager of the JDSC. The meeting was held to discuss past, present, and future activities at the JDSC property. During the interview, Mr Everetts explained the Integrated Assessment process, and pointed out proposed sample locations. The sampling plan consisted of the collection of soil, sediment, groundwater, and surface water samples located in and around the vicinity of the JDSC property. Tentative dates for the field investigation portion of the CERCLA Integrated Assessment were also discussed.

3 3 RECONNAISSANCE INSPECTION

The first of two reconnaissance inspections were conducted at the Galena facility on

October 31, 1995 by Mr Bruce Everetts During this inspection, a walk through of the property was conducted to identify potential areas in which contamination may exist. Using past Sanborn Fire Insurance Maps and aerial photographs of the area, locations of buildings, tanks, and tar wells were tentatively located. The excavated pit, wastepile, and monitor wells were also located and identified as potential sample locations.

The JDSC property can be accessed by traveling south from Route 20, on South Water Street for approximately 1000 feet (Figure 3-1) From South Water Street, several small gravel roads enter the JDSC property No buildings, tanks, or other structures remain from the once active petroleum storage facility and access to the property was found not to be restricted

According to Mr Ertmer, the JDSC property has remained in relatively the same condition since the remedial activities were performed by DAHL in 1993. The investigation was originally conducted to determine the extent of soil contamination resulting from 48 years of operating a bulk petroleum storage facility. During the investigation, information became available which suggested several different MGP's operated at the same location dating back to at least 1856. With that information, the JDSC identified a Potential Responsible Party (PRP) and attempted to encourage their participation in the soil remediation at the property. At the time of this CERCLA Integrated Assessment report, no additional activities have taken place by either party.

Prior to sampling on November 20, 1995 another brief inspection of the JDSC property was performed by Illinois EPA's Site Assessment Unit—Site conditions did not change greatly since observations made on October 31, 1996—Also present during this site reconnaissance were Mr Mark Densmore, Mr Brad Taylor, Mr Ken Corkill, and Mr Pete Sorensen of Illinois EPA's

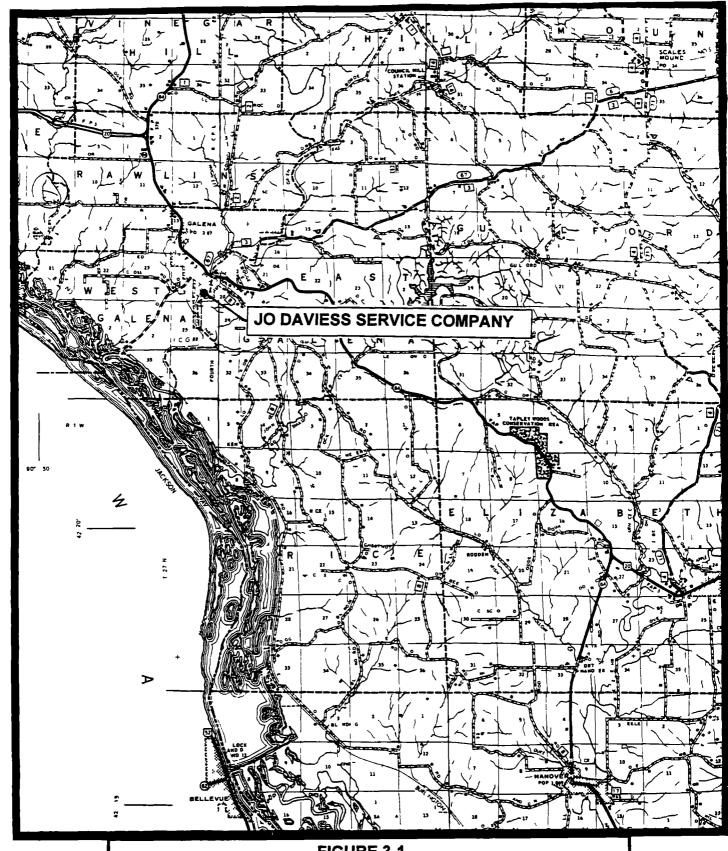


FIGURE 3-1

JO DAVIESS COUNTY GENERAL HIGHWAY MAP

SCALE

SCALE

Site Assessment Unit Representing the JDSC was Mr Mick Gronewald from Fehr-Graham and Associates

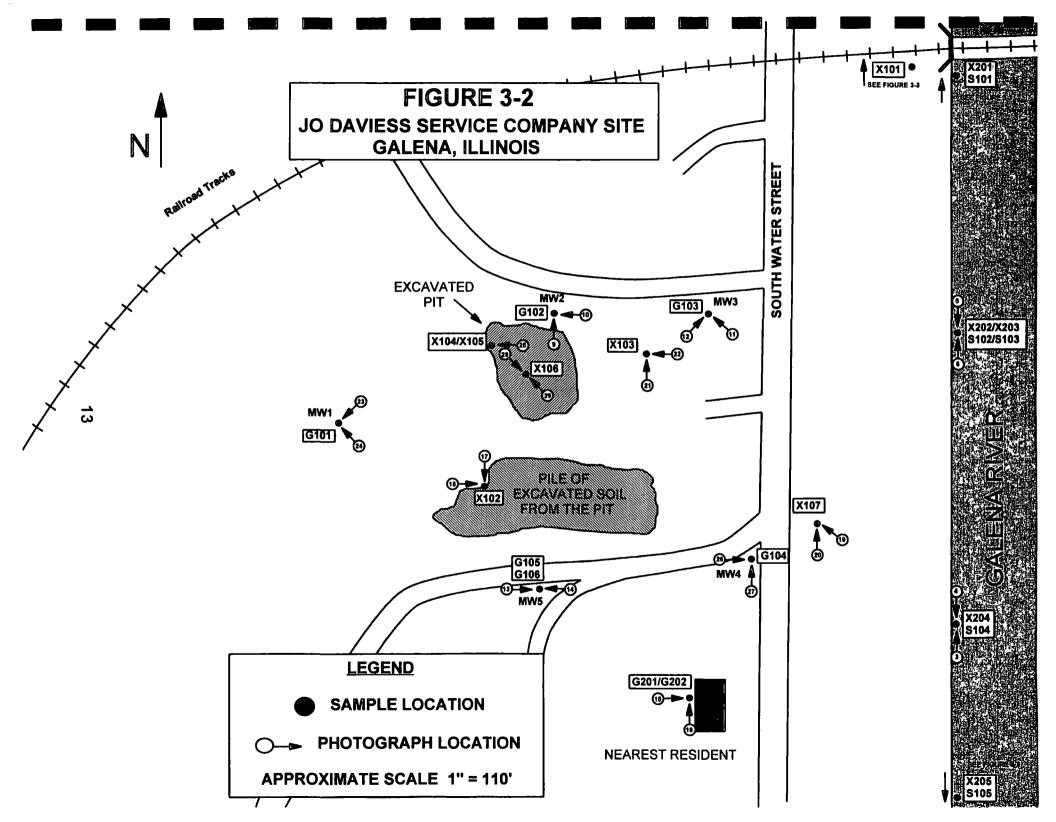
3 4 SOIL/SEDIMENT, SURFACE WATER, AND GROUNDWATER SAMPLING

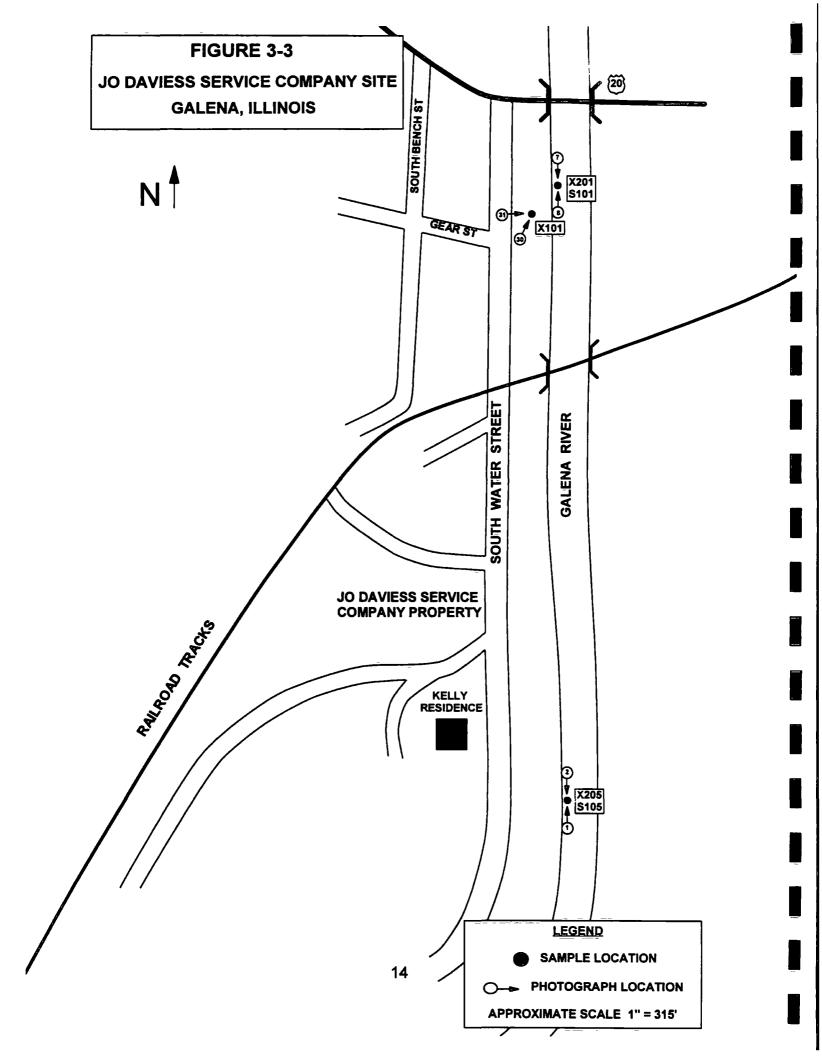
During the field investigation portion of the CERCLA Integrated Assessment, samples were collected to determine levels of USEPA Target Compound List (TCL) analytes present at and around the facility. The TCL is provided in Appendix B and volume 2 of the Integrated Assessment Final Report. On November 20 - 21, 1995. Illinois EPA personnel collected seven soil samples, five sediment samples, five surface water samples, six groundwater samples from monitor wells, and two groundwater samples from a residential well. The sample locations are illustrated in Figures 3-2 and 3-3. The JDSC chose to split a portion of investigative samples.

3 5 SOIL/SEDIMENT SAMPLING PROCEDURES

Seven soil and five sediment samples were collected during the sampling event conducted November 20 - 21, 1995. These samples were collected to determine if contamination existed at locations within and outside of the JDSC property. Samples at each location were placed into their respective glass containers in the following manner: volatile jars filled first, semi-volatile organic jars second, and inorganic jars third. After sampling each location all sample containers were capped with their respective lids and placed in coolers.

Sample X101 was located 40 feet east of South Water Street and 20 feet north of a small creek just north of the JDSC property. The area was selected due to its similarity in soil type with that found on the JDSC property and its proximity to the other soil sample locations. The





purpose of this location was to obtain a representative background soil sample. This sample was obtained using a stainless steel trowel from a depth of 4 - 9 inches. Air monitoring was performed by the use of a Foxboro Toxic Vapor Analyzer Model 1000. No meter readings, above background concentrations, for either the PID (photo ionization detector) or FID (flame ionization detector) were obtained. All subsequent samples were also monitored. Sample appearance was a dark brown, silty clay loam.

Sample X102 was located 42 feet north of an east-west gravel road and 67 feet north of monitor well 5. This sample was located along the northern slope of a pile of excavated soil situated along the southern portion of the JDSC property. The pile of soil was a result of the 1993 remedial activities performed by DAHL. The purpose of obtaining this sample was to determine if contamination existed within the contents of the wastepile. The sample was obtained using a stainless steel trowel, from a depth of 1 ½ - 2 feet. The sample appearance was a dark brown/black urban fill.

Sample X103 was located 60 feet southwest of monitor well 3 and 50 feet southeast of monitor well 2 along the eastern portion of the JDSC property. The area was located near the previous location of the bulk petroleum storage tanks. The sample was collected to determine if contamination existed in the upper two feet of soil. Using a stainless steel auger, the sample was taken in the 1½ - 2 foot range of soil. Appearance of the sample was a dark brown cindery, silty clay. Beneath the 2 foot range, the soil became cluttered with bricks, metal, and other debris.

Sample X104 was located 38 feet southwest of monitor well 2 and an estimated 117 feet north of monitor well 5 The sample was collected from a vertical wall of the western side of the

excavated pit on the JDSC property. From the wall of the pit, the sample was collected in order to determine if contamination existed within the pit. A stainless steel trowel was used to obtain a sample at a depth of 1 - 1 ½ feet. The sample appeared to contain a black cindery loam with pieces of orange brick.

Sample X105 was a duplicate sample of X104 Soil that was obtained for X104 and X105 was placed into a stainless steel pan, mixed thoroughly, then placed alternately into jars for both X104 and X105

Sample X106 was located 42 feet southwest of monitor well 2 and 102 feet north of monitor well 5 in the bottom of the excavated pit. The excavated pit was approximately 6 to 8 feet below the surrounding terrain at this sample location. The sample was obtained at a depth of 1 - 1 ½ feet into the bottom of the pit using a stainless steel auger. Air monitoring of the sample revealed a reading of 1200 ppm on the flame ionization detector. The sample had an appearance of a dark brown sandy clay.

Sample X107 was located 12 feet east of South Water Street in direct line with a drainage pipe beneath the street. The drainage pipe was sloped toward the east, thus providing a route for excess surface water and sediments from the JDSC property to be carried toward the Galena River. At the time of sample collection, a small amount of water was flowing from the drainage pipe. The sample was obtained using a stainless steel trowel from 1 - 5 inches below the surface. The appearance of the sample was a dark brown silty loam containing small pieces of gravel.

Sample X201 was located 400 feet north of the railroad bridge and 6 feet east of the west bank of the Galena River This sample was situated approximately 800 feet upstream from the

JDSC property The purpose of sampling this location was to obtain a representative background sediment sample. The sample was obtained using a stainless steel auger from the surface to a depth of 8 inches beneath 1 foot of water. The appearance of the sample was a dark brown fine silt with some compaction.

Sample X202 was located an estimated 300 feet south of the railroad bridge and 13 feet east of the west bank of the Galena River. The location was beneath 2 feet of water within the Galena River and an estimated 175 feet directly east of the JDSC property. The purpose of taking this sample was to determine if hazardous constituents were present within the sediments of the Galena River. Using a stainless steel auger the sample was obtained in the upper 8 inches of sediment. Sample appearance was a fine dark brown silt.

Sample X203 was a duplicate sample of X202 Sediments that were obtained for X202 and X203 were placed in a stainless steel pan, mixed thoroughly, then placed alternately into jars for both X202 and X203

Sample X204 was located an estimated 600 feet south of the railroad bridge and 4 feet east of the west bank of the Galena River. The purpose for taking this sample was to determine if hazardous constituents existed within the river sediments at a location approximately 100 feet south of the JDSC property. The sample was obtained using a stainless steel auger to a depth of 0 - 8 inches of sediment beneath approximately 1 ½ foot of water. The sample had an appearance of a dark brown, fine silt with a small amount of sand

Sample X205 was located an estimated 1000 feet south of the railroad bridge and 6 feet east of the west bank of the Galena River. This sample was located approximately 700 feet downstream from the JDSC property. Beneath 1 - 1 ½ feet of water the sample was collected in

the upper 8 inches of sediment using a stainless steel auger Sample appearance was a dark brown, tight silty clay

All soil and sediment samples were analyzed for the Target Compound List constituents which can be found in Appendix B and in volume 2 of this report. Soil and sediment samples which were to be analyzed for organic constituents were delivered to Illinois EPA's Division of Laboratories in Springfield, Illinois on November 21, 1995. Those samples requiring inorganic analysis were delivered to Illinois EPA's Division of Laboratories in Champaign, Illinois on November 22, 1995. Photographs of the site and sample points are provided in Appendix C (see Figures 3-2 and 3-3 for photograph location maps)

Standard Illinois EPA decontamination procedures were followed prior to the collection of all samples. All sampling equipment was previously decontaminated prior to its transport to the site. Decontamination procedures included the cleaning of all equipment with a liquid. Alconox solution, rinsing with hot tap water, rinsing with a 50% mixture of Alconox and water, rinsing with hot tap water again, and with distilled water as a final rinse. All equipment was either dried with paper towel or air dried, then wrapped and stored in heavy aluminum foil. Field decontamination procedures include all of the above except the hot tap water rinse.

3 6 SURFACE WATER SAMPLING PROCEDURES

Five surface water samples were collected during the sampling event conducted on November 20 - 21, 1995 These samples were collected to determine if contamination existed within surface waters of the Galena River Samples at each sample point were placed into their respective glass containers in the following manner volatile jars filled first, semi-volatile

organic jars second, and inorganic jars third. After sampling each location, preservatives were added to sample containers which required them, capped with their respective lids, then placed in coolers

Sample S101 was located an estimated 400 feet north of the railroad bridge and 6 feet east of the west bank of the Galena River. This sample was collected from the waters of Galena River approximately 800 feet upstream from the JDSC property and one foot below the water surface. The purpose of sampling this location was to obtain a representative background surface water sample. The sample was obtained with a stainless steel bacon bomb sampler and collected from the same location as sediment sample point X201.

Sample S102 was located an estimated 300 feet south of the railroad bridge and 13 feet west of the east bank of the Galena River. From the surface waters of the Galena River, the sample was collected two feet below the water surface directly east of the JDSC property. This sample was collected to determine in the surface waters of the Galena River may contain hazardous constituents as a result of the presence of past activities on the JDSC property. Using a stainless steel bacon bomb sampler the sample was collected from the general location of sediment sample point X202.

Sample S103 was a duplicate sample of S102 Surface water was collected alternately for S102 and S103 in the previously described sequence

Sample S104 was located an estimated 600 feet south of the railroad bridge and 4 feet east of the west bank of the Galena River. The sample was obtained from 1 - 1 ½ feet below the surface within the Galena River at a location approximately 100 feet downstream from the JDSC property. A stainless steel bacon bomb sampler was used to collect the surface water sample.

from the coinciding sediment sample location X204

Sample S105 was located an estimated 1000 feet south of the railroad bridge and 6 feet east of the west bank of the Galena River. From the surface waters of the Galena River, the sample was obtained from 6 - 8 inches below the water surface and approximately 700 feet south of the JDSC property. The sample was collected in order to determine if hazardous constituents may be present downstream of the JDSC property. This sample was collected in a similar location as sediment sample X205 and was obtained with a stainless steel bacon bomb sampler.

All surface water samples were analyzed for the Target Compound List constituents which can be found in Appendix B and in volume 2 of this report. Surface water samples which were to be analyzed for organic constituents were delivered to Illinois EPA's Division of Laboratories in Springfield, Illinois on November 21, 1995. Those samples requiring inorganic analysis were delivered to Illinois EPA's Division of Laboratories in Champaign, Illinois on November 22, 1995. Photographs of the site and sample points are provided in Appendix C (see Figures 3-2 and 3-3 for photograph location maps).

Standard Illinois EPA decontamination procedures were followed prior to the collection of all samples. The bacon bomb sampler was previously decontaminated prior to its transport to the site. Decontamination procedures included the cleaning of all equipment with a liquid. Alconox solution, rinsing with hot tap water, rinsing with a 50% mixture of Alconox and water, rinsing with hot tap water again, and with distilled water as a final rinse. All equipment was either dried with paper towel or air dried, then wrapped and stored in heavy aluminum foil. Field decontamination procedures include all of the above except the hot tap water rinse.

3 7 GROUNDWATER SAMPLING PROCEDURES

On November 20 -21, 1995 eight groundwater samples were collected from five monitor wells and one residential well The five monitor wells were previously installed by DAHL in 1993 and were located to the north, west, and south of the JDSC property The wells were installed at varying depths ranging from 14 - 18 feet below the surrounding terrain. During CERCLA Integrated Assessment activities, water was detected in the monitor wells at depths ranging from 10 8 to 14 3 feet below the surface of the land Each monitor well was purged by extracting five volumes of water from each If a monitor well became dry before five volumes of water were obtained, the well was considered purged Only monitor well 5 produced a complete five volumes of water Monitor wells 1 and 4 did not supply enough groundwater to obtain a complete sample thus, the sample containers for G101 and G104 were only partially filled The groundwater from monitor well 4 had a cloudy, turbid appearance and emitted a smoky odor which resulted in an elevated FID reading The samples were placed into their respective bottles in the following sequence volatile vials filled first, semi-volatile organic bottles second, and inorganic bottles third All bottles requiring the addition of preservatives had them added, after which, all sample containers were capped with their respective lids and placed in coolers immediately after obtaining the sample Prior to placement into its respective sample container, the sample requiring total metal analysis was filtered using a 5 micron filter and a peristaltic pump. The locations of each monitor well and their respective depths are illustrated in Figure 3-4

Using a 1970 aerial photograph, the residential well (G201/G202) was estimated to be 220 feet south of the southern boundary of the JDSC property. This residential location is also

located approximately 50 feet above the surrounding terrain of the JDSC property. According to information obtained from the land owner, the well is approximately 110 feet in total depth. Since the residential dwelling is elevated approximately 50 feet above the surrounding terrain, the well is estimated to be about 60 feet below the surface of the JDSC property. The well was purged for 15 minutes during which time pH, conductivity, and temperature were measured. Once the pH, conductivity, and temperature were allowed to stabilize, the sample was collected. The samples were placed into their respective bottles in the following sequence volatile vials filled first, semi-volatile organic bottles second, and inorganic bottles third. All bottles requiring the addition of preservatives had them added, after which, all sample containers were capped with their respective lids and placed in coolers immediately after obtaining the sample

All groundwater samples were analyzed for the Target Compound List constituents which can be found in Appendix B and in volume 2 of the Integrated Assessment report. Those which were to be analyzed for organic constituents were delivered to Illinois EPA's Division of Laboratories in Springfield, Illinois on November 21, 1995. Those samples requiring inorganic analysis were delivered to Illinois EPA's Division of Laboratories in Champaign, Illinois on November 22, 1995. Photographs of the site and sample points are provided in Appendix C (see Figures 3-2 and 3-3 for photograph location maps)

3 8 ANALYTICAL RESULTS

This section includes a summary of the analytical results of samples collected during the CERCLA Integrated Assessment conducted at the JDSC site in Galena, Illinois As previously mentioned, Illinois EPA's Division of Laboratories were utilized for organic and inorganic

sample analysis A quality assurance review of the sample analyses was also performed by Illinois EPA's Division of Laboratories

ANALYTICAL RESULTS OF IEPA COLLECTED SAMPLES

Chemical analysis of soil and sediment samples collected by Illinois EPA personnel revealed the presence of volatile, semi-volatile, pesticides, heavy metals, common laboratory artifacts, and common soil constituents at the JDSC site. Table 3-1 contains a physical description, location, and depth of each sample. Table 3-3 contains a summary of soil/sediment sample chemical analysis. Complete laboratory analytical data of JDSC sample analysis are provided in Appendix F (under separate cover as volume 2.)

Elevated levels of semi-volatile constituents were detected in soil samples X102, X104/X105, and X106. High levels of volatile compounds were detected in soil sample X106. As mentioned previously, these soil samples were collected from locations associated with excavations performed during 1993 remedial activities performed by DAHL. Sample X102 was taken from the pile of soil excavated from the pit. Samples X104/X105 and X106 were collected from the base and wall of the pit. None of the soil samples taken during the Integrated. Assessment of the JDSC site contained contaminant levels which exceeded CERCLA Removal. Action Levels or Illinois EPA's Tiered Approach To Cleanup Objectives.

Groundwater Sample G104 was collected from a monitor well located along the southeastern boundary of the JDSC property. The monitor well was approximately twelve feet below the surface and documented that a release to groundwater has occurred. Analysis of G104 indicated elevated levels of volatile and semi-volatile constituents. Levels of Benzene, Toluene,

Phenol, 2,4-Dimethylphenol, Naphthalene, and bis(2-Ethylhexyl)phthalate exceeded groundwater cleanup objectives set forth by Illinois EPA's Tiered Approach to Cleanup Objectives

None of the sediment, surface water, or residential water samples indicated contaminants significantly above background levels

3 9 KEY SAMPLES

The following table (Table 3-2) identifies the key samples obtained during the JDSC Integrated Assessment and contain contaminants at least three times greater than background levels. For a review of contaminants detected in all samples, reference Table 3-3, Analytical Results, located after Tables 3-1 and 3-2 in this section.

4 IDENTIFICATION OF SOURCES

4 1 INTRODUCTION

This section discusses the hazardous waste sources which have been identified at the JDSC site during the initial stages of the CERCLA Integrated Assessment

Information concerning size, volume, waste type, and waste composition of each source is compiled during the initial CERCLA Site Assessment and subsequent Integrated Assessment. The sources identified during the Integrated Assessment is a wastepile and contaminated soil. Further investigation of the site may lead to the discovery of new sources or provide additional information characterizing the currently identified sources.

TABLE 3-1

SAMPLE DESCRIPTIONS

SOIL SAMPLES

| SAMPLE | DEPTH | APPEARANCE | LOCATION |
|-----------------------|---------------|---|---|
| X101 (Soul Backgro | 4 - 9 and) | Dark brown silty clay loam | North of the facility east of South Water Street 40 feet east of South Water Street and 20 feet north of a small creek (flowing east—west) |
| X102 | 15 - 2 | Black/ Dark brown urban fill | On the north slope of the wastepile which is a result of a 1993 Site Assessment. 42 feet north of the east—west of gravel road and 67 feet north of Monitor Well #5 |
| X103 | 15 - 2 | Dark brown cindery silty clay | Along the eastern portion of the Jo Daviess SC property 60 feet south—west of Monitor Well #3 and 50 feet south—east of Monitor Well #2 |
| X104 | 1 - 15 | Black cindery loam with pieces of orange brick | Along the south western wall of the excavated pit 38 feet south-west of Monitor Well #2 and an estimated 117 feet north of Monitor Well #5 |
| X105 | duplicate sam | ple of X104 | |
| X106 | 1 - 15 | Dark brown sandy clay FID - 1200 ppm | From the bottom of the excavated pit. 42 feet south—west of Monitor Well #2 and 102 feet north of Monitor Well #5 |
| X107 | 1 - 5 | Dark brown silty loam with gravel | East of the Jo Daviess SC property 12 feet east of South Water Street in direct line with a drainage pipe under South Water Street. |

SEDIMENT SAMPLES

| SAMPLE | DEPTH | APPEARANCE | LOCATION |
|-----------------------|--------------------|--|---|
| X201 (Sediment Bac | 0 - 8 ckground) | Dark brown fine silt, somewhat compacted | Along the Galena River upstream of the property 400 feet north of the railroad bridge and 6 feet east of the west bank of the Galena River beneath 1 foot of water |
| X202 | 0 -8 | Fine dark brown silt | Along the Galena River east of the property An estimated 300 feet south of the railroad bridge and 13 feet east of the west bank of the Galena River beneath 2 feet of water |
| X203 | duplicate san | nple of X202 | |
| X204 | 0 -8 | Dark brown fine silt with a small amount of sand | Along the Galena River downstream of the property An estimated 600 feet south of the railroad bridge and 4 feet east of the west bank of the Galena River beneath 1 5 feet of water |
| X205 | 0 - 8' | Dark brown tight sitty clay | Along the Galena River downstream of the property An estimated 1000 feet south of the railroad bridge and 6 feet east of the west bank of the Galena River beneath 1 - 1 5 feet of water |

FIGURE 3-1

SURFACE WATER SAMPLES

| SAMPLE | DEPTH | APPEARANCE | LOCATION |
|-----------------------|------------------------|---------------------|--|
| S101 (Surface Wate | 1 bws r Background) | Cloudy and odorless | Along the Galena River upstream of the property 400 feet north of the railroad bridge and 6 feet east of the west bank of the Galena River |
| S102 | 2 bws | Cloudy and odorless | Along the Galena River east of the property An estimated 300 feet south of the railroad bridge and 13 feet west of the east bank of the Galena River |
| S103 | duplicate samp | ele of S102 | |
| S104 | 1 - 15 bws | Cloudy and odorless | Along the Galena River downstream of the property An estimated 600 feet south of the railroad bridge and 4 feet east of the west bank of the Galena River |
| S105 | 6 - 8" bws | Cloudy and odorless | Along the Galena River downstream of the property An estimated 1000 feet south of the railroad bridge and 6 feet east of the west bank of the Galena River |

^{*}bws - below water surface

MONITOR WELL SAMPLES

| SAMPLE | DEPTH | APPEARANCE | LOCATION |
|--------------|----------------|---------------------------------------|---|
| G101 | 10 76 bls | Slightly turbid | Monstor Well #1 |
| (Monstor Wel | l Background) | Slightly elevated PID reading | (Monitor Well #1 from 1993 DAHL Report) |
| G102 | 143 bls | Slightly turbid | Monitor Well #2 |
| | | | (Monitor Well #3 from 1993 DAHL Report) |
| G103 | 14 28 bis | Heavily turbid | Monitor Well #3 |
| | | | (Monitor Well #5 from 1993 DAHL Report) |
| G104 | 11 97 bls | Dark and cloudy with little turbidity | Monitor Well #4 |
| | | Slightly elevated FID reading | (Monitor Well #4 from 1993 DAHL Report) |
| G105 | 12 33 bls | Slightly turbid | Monitor Well #5 |
| | | | (Monitor Well #2 from 1993 DAHL Report) |
| G106 | duplicate sam; | ole of G105 | |
| G.50 | acpiioae oaiij | 210 01 01 00 | |

^{*}bls - below land surface

RESIDENTIAL WELL SAMPLE

| SAMPI | LE DEPTH | APPEARANCE | LOCATION |
|-------|----------------|--------------------|---|
| G201 | est. 110 bis | Clear and odorless | Residential dwelling located approximately 220 feet south of the Jo Daviess SC property |
| G202 | duplicate samp | ble of G201 | |

^{*}bis - below land surface

JO DAVIESS SERVICE COMPANY GALENA, ILLINOIS

TABLE 3-2 KEY SAMPLE SUMMARY

SOIL SAMPLES

| SAMPLING POINT DATE COLLECTED | X101 11-21-85 | | X102 11-20-95 | X103 11-21-95 | X104 112195 | X105 4 plints (X104 | X108 11-21-95 | X107 11-20-95 |
|----------------------------------|------------------|---|------------------|------------------|----------------|------------------------|------------------|------------------|
| | soil background | 4 | | | | | | |
| PARAMETER | | | | | | | | |
| VOLATILES | | | | | | | | |
| Benzene | 13 0 | U | | | | | 3000 0 J | |
| Ethylbenzene | 13 0 | U | | | | | 33000 0 D | J |
| Xylene(total) | 13 0 | U | | | | | 84000 0 D | EJ |
| | (ppb) | | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) |
| Naphthalene | 440 0 | U | | | | 2300 0 | 13000 0 | |
| 2-Methylnaphthalene | 440 0 | Ū | | | 4900 0 | 6000 0 | 17000 0 | |
| Phenanthrene | 440 0 | Ū | | | 4000 0 | 4500 0 | 2900 0 | |
| Fluoranthene | 150 0 | J | 3300 0 | | 3400 0 | 3200 0 | | |
| Pyrene | 92 0 | J | 2300 0 | | 2000 0 | J 2000 0 J | | |
| Benzo(a)anthracene | 440 0 | U | 3800 0 | | 4000 0 | 4000 0 | | |
| Chrysene | 440 0 | U | 2800 0 | | 3000 0 | 3000 0 | | |
| Benzo(b)fluoranthene | 440 0 | U | 5900 O J | | 4300 0 | | | |
| Benzo(a)pyrene | 440 0 | U | 4200 0 | | 5700 O | 5000 0 | | |
| | (ppb) | | (ppb) | _ (ppb) | (ppb) | (ppb) | (ppb) | (ppb) _ |

MONITOR WELL SAMPLES

| SAMPLING POINT | G101 | | G102 | G103 | G104 | | G105 | G106 |
|----------------------------|--------------------|--------|----------|----------|-------------|-----|----------|-------------------|
| DATE COLLECTED | 11-21-95 | | 11-20-95 | 11-20-95 | 11-21-95 | | 11-20-95 | duplicate of O105 |
| | menitor well being | 100.00 | · | | | | | |
| PARAMETER | | | | | | | | |
| VOLATILES | | | | | | | | |
| Acetone | 10 0 | UJ | | | 320 0 | J | | |
| 2-Butanone (MEK) | 10 0 | U | | | 150 0 | J | | |
| Benzene | 10 0 | U | | | 21000 0 | J | | |
| Toluene | 10 0 | υ | | | 5000 O | J | | |
| Ethylbenzene | 10 0 | U | | | 170 0 | J | | |
| Xylene(total) | 10 0 | U | | | 2100 0 | J | | |
| | (ppb) | | (ppb) | (ppb) | (ppb) | | (ppb) | (ppb) |
| SEMINOLATILES | | | | | | | | |
| Phenol | | U | | | 2700 0 | J | | |
| 2-Methylphenol | 10 0 | U | | | 8200 0 | J | | |
| 4-Methylphenol | 10 0 | U | | | 60000 0 | | | |
| 2 4-Dimethylphenol | 10 0 | U | | | 16000 0 | | | |
| Naphthalene | | U | | | 1100 0 | Ε | | |
| 2 – Methylnaphthalene | | U | | | 140 0 | | | |
| Phenanthrene | | U | | | 120 0 | | | |
| bis(2—Ethylhexyl)phthalate | 14 0 | | 65 0 | 42 0 | 120 0 | | | |
| | (ppb) | | (ppb) | (dąq) | (ppb) | | (ppb) | (ppb) |
| NORGANICS | | | | | | | | |
| | | | | | INSUPPICIEN | _ | | |
| Manganese | 22 7 | _ | 6990 0 | | VOLUME POI | l . | 1060 0 | 1060 0 |
| Sodium | | В | 46900 O | 371000 0 | SAMPLE | | | |
| | (ppm) | | (ppm) | (ppm) | ANALYSIS | | (ppm) | (ppm) |

LIST OF DATA QUALIFIERS

D — diluted sample E — exceeded calibration range

U — compound was not detected

J — estimated value

B — analyte was found in the blank as well as the sample

JO DAVIESS SERVICE COMPANY GALENA, ILLINOIS

TABLE 3-3 ANALYTICAL RESULTS

MONITOR WELL SAMPLES

| SAMPLING POINT DATE COLLECTED | G101 11-21- 9 5 | G102 11-20-95 | G103 11-20-95 | G104 11-21-95 | G105 11-20-95 | G106 duplicate of G105 |
|----------------------------------|---------------------------|------------------|------------------|------------------|------------------|---------------------------|
| PARAMETER | जनसंख्य कहा कर्पाए | 1005 | | | | |
| VOLATILES | | | | | | |
| Acetone | 100 U | | | 320 0 J | | |
| 1.2-Dichloroethane | 100 L | | | | | |
| 2-Butanone (MEK) | 100 (| | | 150 0 J | | |
| Benzene | 100 L | | | 21000 0 J | | |
| 4-Methyl-2-Pentanone | 100 U | | | 110 J | ~- | |
| 2-Hexanone | 100 L | | | 29 0 J | | |
| Toluene | 100 L | J | | 5000 Q J | | |
| Ethylbenzene | 100 L | j | | 170 0 J | | |
| Xylene(total) | 100 L | J - | | 2100 0 J | | |
| | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) |
| SEMIVOLATILES | | _ | | | | - |
| Phenol | 100 L | ı | | 2700 D J | ~- | |
| 2-Methylphenol | 100 L | | | 8200 0 J | | |
| 4-Methylphenol | 100 0 | | | 600000 | | |
| 2 4-Dimethylphenol | 100 | | | 16000 0 | | |
| Naphthalene | 100 U | | | 1100 0 E | | |
| 2-Methylnaphthalene | 100 L | | | 140 0 | | |
| Acenaphthylene | 10.0 L | | | 40 0 J | | |
| Dibenzofuran | 10 0 L | ı - - | | 48 0 J | | |
| Diethylphthalate | 100 L | | | | | 20 J |
| Fluorene | 100 L | | | 65 0 J | | |
| Phenanthrene | 100 L | | | 120 0 | | |
| Anthracene | 100 L | | | 26 0 J | | |
| Carbazole | 100 L | | | 64 0 J | | |
| Fluoranthene | 100 L | | | 60 D J | | |
| Pyrene | 100 L | | | 48 0 J | | |
| Benzo(a)anthracene | 100 L | | | 430 J | | |
| Chrysene | 100 L | | | 29 0 J | | |
| bis(2-Ethylhexyl)phthalate | 140 | 65 0 | 42 0 | 120 0 | 31 0 | 28 0 |
| Benzo(b)fluoranthene | 100 L | | | 55.0 J | | |
| | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) |
| PESTICIDES | | | | | | |
| beta-BHC | 0 05 L | 0 025 JP | | | | |
| Aldrin | 0.05 L | | | 0 0074 JP | | |
| Heptachlor epoxide | 0.05 | | | 0 017 JP | | |
| 4 4 -DDE | 01 L | | | 0 067 J | | |
| 4 4 -DDD | 01 L | ı | | 0 0086 JP | | |
| Endrin Aldehyde | 01 L | | | 0 025 JP | | |
| alpha-Chlorodane | 0.05 L | | | 0 015 JP | | |
| · | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) |
| INORGANICS | | | | | | |
| Aluminum | 1800 0 | 208 0 J | 1420 0 | INSUFFICIENT | 464 0 | 396 0 |
| Barium | 88 8 E | | | VOLUME | 37 2 B | |
| Calcium | 132000 0 | 203000 0 | 430000 | FOR | 157000 0 | 156000 0 |
| Chromium | 59 E | | 15.2 | INORGANIC | | |
| Iron | 1980 0 | 746 0 | 16100 | SAMPLE | 674 0 | 563 0 |
| Lead | 4 4 | 12 B | 59 | ANALYSIS | 44 | 4.2 |
| Magnesium | 55100 0 | 144000 0 | 29000 0 | | 108000 0 | 108000 0 |
| Manganese | 22 7 | 6990 0 | 32 2 | | 1060 0 | 1060 0 |
| Potassium | 2180 0 E | | 3640 0 E | 3 | 3860 0 B | |
| Sodium | 4850 0 E | | 371000 0 | - | 66100 | 6530 0 |
| Zinc | 19 0 E | | | 3 | 11 1 B | |
| Cyanide | 100 L | | | - | 210 | 210 |
| Sulfate | 157000 0 | 347000 0 | 156400 0 | | 292000 0 | 282000 0 |
| ·· | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) |
| | (haberto) | // | AA. | A-benefit | | App. 17 |

RESIDENTIAL WELL SAMPLE

| SAMPLING POINT | G201 | | G202 | _ |
|----------------|----------|--------------------|----------|---|
| DATE COLLECTED | 11-20-95 | duplicate of O 101 | | |
| PARAMETER | | | | |
| NORGANICS | | | | |
| Barium | 107 0 | В | 107 0 | В |
| Calcium | 124000 0 | | 124000 0 | |
| Iron | 269 0 | | 253 0 | |
| Lead | 14 | В | 16 | В |
| Magnesium | 65100 0 | | 65700 0 | |
| Manganese | | | 24 | В |
| Potassium | 4260 D | В | 5140.0 | |
| Sodium | 67000 0 | | 67500 0 | |
| Zinc | 58 9 | | 58.9 | |
| Sulfate | 138000 0 | | 139000 0 | |
| | (ppm) | | (ppm) | |

- UST OF DATA QUALIFIERS

 U compound was not detected
 J estimated value
 D diluted sample
 E exceeded catibration range
 B analyte was found in the blank
 as well as the sample

JO DAVIESS SERVICE COMPANY GALENA ILLINOIS

TABLE 3-3 **ANALYTICAL RESULTS**

SOIL SAMPLES

| SAMPLING POINT DATE COLLECTED | X101 11-21-95 soil background | X102 11-20-95 | X103 11-21-95 | X104 11-21-95 | X105 4 plicate fX194 | X106 11-21-95 | X107 11-20-95 |
|--|-------------------------------------|------------------|------------------|------------------|-------------------------|------------------|------------------------|
| PARAMETER | an orași | | | | | | <u></u> |
| <u>OLATILES</u> | | | | | | | |
| Benzene | 130 U | | | | | 3000 0 | J |
| Ethylbenzene | 130 U | | | | | 33000.0 1 | DJ ~- |
| Xylene (total) | 130 U | | | | | 84000.0 | DEJ |
| | (ppb) | (ppb) | (opb) | (ppb) | (epb) | (ppb) | (ppb) |
| SEMIVOLATILES | | | | | | | |
| Naphthalene | 440 0 U | 780 0 J | | 1900 0 | J 2300 0 | 13000.0 | |
| 2 – Methylnaphthalene | 440 0 U | | | 4900 0 | 6000 0 | 17000.0 | |
| Fluorene | 440 0 U | | | | 910 0 | | J |
| Phenanthrene | 440 0 U | 1900 0 J | | 4000 0 | 4500 0 | 2900 0 | 130 0 |
| Anthracene | 440 0 U | 500 0 J | | 540 0 | J 560 0 | J | |
| Fluoranthene | 150 0 J | 3300 0 | | 3400 0 | 3200 0 | 590 0 | J 230 0 |
| Pyrene | 92 0 J | 2300 0 | | 2000 0 | J 2000 0 | J 6100 | J 230 0 |
| Benzo(a)anthracene | 440 0 U 440 0 U | 3800 0 2800 0 | | 4000 0 3000 0 | 4000 0 3000 0 | | 220 0 170 0 |
| Chrysene Borne (b) (i) constitue | 440 0 U | | | 4300 0 | 3100 0 | J | |
| Benzo(b)fluoranthene Benzo(k)fluoranthene | 4400 W | | | 3500 0 | J 3500 0 | J | 330 0 |
| Benzo(a)pyrene | 440 0 U | | | 5700 O | 5000 0 | J | 190 0 |
| Indeno(1 2,3-cd)pyrene | 440 0 UJ | | | 2700 0 | J 2500 0 | J | 1900 |
| Benzo(g,h i)perylene | 440 0 U | | | 980 0 | J 870 0 | J | |
| Berizo(g,n i)peryene | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) |
| ESTICIDES | | | | | | | |
| alpha-BHC | 23 U | 31 F | | 65 | P | 077 , | JP |
| beta-BHC | 074 JP | 31 F | | 32 | 37 | P | JP |
| delta-BHC | 23 U | | | 3 <i>2</i> | 20 | JP | |
| | | 23 F | | 66 | P 82 | | JP 022 . |
| Heptachlor Aldrın | 23 U 23 U | | | 87 | 79 | | JP 061 |
| | 23 U | 48 F | | 69 | P 90 | P | JP 061 |
| Heptachlor epoxide Endosulfan I | 23 U | 27 | | | P 90 | r | |
| Dieldrin | 16 JP | 62 F | | | | P 041 . | JP 089 |
| Endrin Endrin | 38 J | 02 F | 05 Ji | | P 11 0 | P 041 | JP 0 69 . |
| 4 4 -DDD | 13 JP | 25 Ji | | | P 120 | P 059 | JP 13. |
| Endosulfan sulfate | 44 U | 23 0 F | | 180 | P 22 0 | | JP |
| Endrin Ketone | 44 U | 23 U F | | 180 | P | F 17 | ,r <u></u> |
| | 12 JP | 20 Ji | | 180 | | 045 . | |
| alpha-Chlorodane | | | | | | | |
| gamma-Chlorodane | 0 53 JP | 13 J | | 2 3 | P 12 | JP | 055 . 680 . |
| Toxaphene Aroclor – 1260 | 2300 U 190 J | 160 0 | 130 J | | 280 0 | P 190 . | |
| Arocior - 1200 | (ppb) | (dqq) | (ppb) | (ppb) | (ppb) | P 190. (ppb) | JP 390 (ppb) |
| NORGANICS | • | | | | - | | |
| Aluminum | 16000.0 | 11200.0 | 20100.0 | 14000 0 | 14800.0 | 13900.0 | 6290 0 |
| Antimony | 13.8 U | | | 182 | J 27 1 | J | |
| Arsenic | 118 J | 10.6 J | J 51 J | | J 72 | | J 58 |
| n | 233 3 | 1100 | 1500 | 106 0 | 405.0 | 167 0 | 447 |
| Berylium Berylium | 233 3 08 B | 14 | 11 | 45 | 1050 | 076 | |
| Cadmium | 35 | 36 | | 53 | 40 | | 12 |
| Calcium | 46200.0 | 89400.0 | 33500.0 | 24000.0 | 22400.0 | 32600.0 | 135000 0 |
| Chromium | 21 0 | 17 9 | 34 4 | 21 3 | 21 5 | 23 3 | 9 9 |
| Cobalt | 99 BJ | | | | J 12 1 | | BJ 39 |
| Copper | 20 4 | 24 0 | 26 5 | 35 1 | 367 | 191 | 11 1 |
| Iron | 23800.0 | 28400.0 | 25300 0 | 551000 | 56100.0 | 19700.0 | 17200.0 |
| Lead | 234 0 | 124 0 | 28 4 | 62 9 | 74.4 | 30 2 | 79 4 |
| Magnesium | 23900.0 | 28200.0 | 13400.0 | 9000 0 | 7930 0 | 12800.0 | 65300.0 |
| Manganese | 967 0 | 832 0 | 695 0 | 517 0 | 493 0 | 756 0 | 829 0 |
| Mercury | 0 05 B | 0 04 E | | | B 0.03 | | |
| Nickel | 24 6 U | | 34 7 | 63 6 | 63.6 | 29 4 | |
| Potassium | 1760 0 | 1630 0 | 2720 0 | 2030 0 | J 2190 0 | | J 721 0 I |
| Silver | 17 B | 27 | 17 E | | B 37 | | |
| Sodium | 1780 B | 264 0 E | | | B 3490 | | B 253 0 |
| Thailium | 026 U | | | 0 48 | B 035 | B | |
| Vanadium | 34 7 | 31 9 | 66 4 | 41 6 | 41 4 | 42 8 | 16 4 |
| Zinc | 1840 0 | 11100 | 86 4 | 658 0 | 604 0 | 97 4 | 724 0 |
| Cyanide | 0 65 U | | | | | | |
| | (ppm) | (ppm) | | | | | |

U - compound was not detected
J - estimated value
B - analyte was found in the blank as well as the sample

D - diluted sample E - exceeded calibration range

TABLE 3-3 **ANALYTICAL RESULTS**

SEDIMENT SAMPLES

| 37 0 90 (ppb) | J | 49 0 13.0 (ppb) | J | 37 0 (ppb) | 63.0 15.0 (ppb) | J | 47 0 8 0 (ppb) | J |
|------------------------------------|--|--|--|---|--|--------------------------------------|---|---------|
| 37 0 9 0 (ppb) 2 4 2 4 | J | 13.0 | | | 15.0 | | 80 | J |
| 9 0 (ppb) 2 4 2 4 | J U | 13.0 | | | 15.0 | | 80 | J |
| 9 0 (ppb) 2 4 2 4 | J U | 13.0 | | | 15.0 | | 80 | J |
| 9 0 (ppb) 2 4 2 4 | J U | 13.0 | | | 15.0 | | 80 | J |
| (ppb) 2 4 2 4 | U | | _ | (ppb) | | | | _ |
| 24 | | | | | | | | |
| 24 | | | | | | | | |
| | | | | 0.58 | 0 59 | JP | 0 59 | Æ |
| 0 38 | U | 0 22 | æ | 0 18 J | | | | |
| | æ | 0 74 | æ | 07 J | 0 47 | æ | 0 22 | J |
| 47 | U | 0 28 | æ | 0 39 J | | | | |
| 0.8 | æ | 19 | P | 26 | 11 | æ | 0.81 | J |
| 0.76 | JP | 0 83 | J | 15 | | | 04 | J |
| 0 47 | æ | 0.88 | æ | 16 J | 0 39 | JP | 0 69 | J |
| 24 0 | U | | | | 49 | æ | | |
| 0 23 | JP | 0.92 | J | 0 99 J | 0 73 | J | 0 56 | |
| 47 0 | U | | | 220. | | | | |
| 86 | JP | 21 0 | J | 260 | 61 | JP | 80 | J |
| (ppb) | | (ppb) | | (ppb) | (ppb) | | (ppb) | |
| | | | | | | | | |
| 9590 0 | | 12000 0 | | 11600 0 | 11700 0 | | 16100 0 | |
| 102 | U | | | | | | 189 | |
| 10 1 | J | 12.5 | J | 144 . | 91 | J | 26 5 | |
| 149 0 | | 198.0 | | 195 0 | 152 0 | | 242 0 | |
| 0 49 | В | 06 | В | 0 44 E | 0 43 | В | 0 74 | E |
| 88 | | 93 | | 73 | 6.8 | | 134 | |
| 91100 0 | | 33500 0 | | 40800 0 | 22000 0 | | 30100 0 | |
| 133 | | 163 | | 158 | 166 | | 20 5 | |
| 53 | ₿J | 11 1 | BJ | 104 B | J 63 | BJ | 11 1 | В |
| 13.3 | | 15.0 | | 162 | 12.0 | | 185 | |
| 19200 0 | | 22700 0 | | 22100 0 | 17100 0 | | 32400 0 | |
| 187 0 | | 360 0 | | 349 0 | 290 0 | | 929 0 | |
| 49800 0 | | 16000 0 | | 18700 0 | 12000 0 | | 15000 0 | |
| 1060 0 | | 713 0 | | 785 0 | 844 0 | | 658 0 | |
| 0.05 | В | 0.08 | В | 0 04 E | 0 07 | В | 0 34 | |
| 15.5 | Ū | | | | | | 34 6 | |
| 1270 0 | _ | 1010 0 | BJ | 1500 0 | 1360 0 | J | 1640 0 | |
| 168 0 | В | 121 0 | В | | | B | 79 9 | i |
| 22 7 | _ | 26.7 | _ | 26 8 | 27 7 | _ | 35 8 | |
| 1890 0 | | 3250 0 | | 3150 0 | 3080 0 | | 6350 0 | |
| | | | | | | | |) |
| | 9590 0 10 2 10 1 149 0 0 49 8 6 (ppb) 9590 0 10 2 10 1 149 0 0 49 8 91100 0 13 3 5 3 13.3 19200 0 187 0 48800 0 1060 0 0.05 15 5 1270 0 168 0 22 7 | 9590 0 102 U 149 0 101 J 149 0 0 49 B 88 91100 0 133 53 BJ 133 53 BJ 133 53 BJ 137 0 49800 0 1060 0 1060 0 107 0 1270 0 1880 0 | 9590 0 12000 0 102 U 101 J 12.5 149 0 198.0 0 49 B 06 8 8 93 91100 0 33500 0 133 163 53 BJ 111 13.3 15.0 19200 0 22700 0 1060 0 7130 0 19800 0 1060 0 7130 0 19800 0 1060 0 7130 0 19800 0 1060 0 7130 0 19800 0 1060 0 7130 0 19800 0 1060 0 7130 0 19800 0 1060 0 7130 0 19800 0 1060 0 7130 0 19800 0 1060 0 7130 | 9590 0 12000 0 1060 0 33500 0 133 15.0 19200 0 22700 0 1000 0 1060 0 155 U — 12700 0 168 0 B 155 U — 12700 0 168 0 B 121 0 B 121 0 B 122 7 26.7 1890 0 3250 0 | 9590 0 12000 0 11600 0 1000 0 133 15.8 8.8 9.3 7.3 91100 0 33500 0 40800 0 18700 0 1600 0 1600 0 1600 0 1600 0 1620 0 1655 U — 1270 0 1680 B 121 0 B 1280 E 1270 0 1680 B 121 0 B 1280 E 1270 0 1680 B 121 0 B 1280 E 1270 0 1680 B 121 0 B 1280 E 1270 0 1680 B 121 0 B 1280 E 1270 0 1680 B 121 0 B 1280 E 1270 B 1890 0 3250 0 3150 0 | 9590 0 12000 0 11600 0 11700 0 102 U | 9590 0 12000 0 11600 0 11700 0 102 U 20 152 0 152 0 152 0 168 8 93 73 73 8 88 93 73 73 88 88 93 73 8 168 8 91100 0 33500 0 40800 0 22000 0 133 15.0 152 0 162 0 1200 0 1600 0 162 0 1200 0 162 0 1200 0 162 0 1200 0 162 0 1200 0 162 0 1200 0 162 0 1200 0 162 0 1200 0 162 0 1200 0 162 0 1200 0 162 0 1200 0 162 0 1200 0 162 0 1200 0 162 0 1200 0 162 0 16 | 0 38 JP |

SURFACE WATER SAMPLES

| SAMPLING POINT DATE COLLECTED | \$101 11-20-95 | | | S103 duplicate of \$1 | 102 | \$104 11-20-95 | S105 11-20-95 | | | |
|----------------------------------|----------------------|-------|----------------|--------------------------|---------------------|-------------------|------------------|---|--------------------|---|
| | from W. the bas | tgrou | tad | | | | | | | |
| PARAMETER | | | | | | | | | | |
| SEMIVOLATILES | | | | | | | | | | |
| bs(2-Ethylhexyl)phthalate | 10 0 (ppb) | U | (ppb) | | 9 0 (ppb) | J | (ppb) | | 20 (ppb) | J |
| INORGANICS | | | | | | | | | | |
| Alumnum | 460 0 | | 262 0 | | 237 0 | | 353 0 | | 233.0 | J |
| Barrum | 74 9 | | 68.4 | В | 68.4 | В | 69 4 | В | 68.1 | В |
| Calcium | 116000 0 | | 116000 0 | | 116000 0 | | 115000 0 | | 117000 0 | |
| iron | 434 0 | | 340 0 | | 339 0 | | 359 0 | | 306.0 | |
| Lead | 67 | J | 60 | J | 5.6 | J | 57 | J | 52 | |
| Magnesium | 57400 0 | | 57500 0 | | 57400 0 | | 57400 0 | | 57 500 0 | |
| Manganese | 98 7 | | 100 0 | | 99 9 | | 97 4 | | 97 7 | |
| Potassium | 1850 0 | U | 2160 0 | В | 2540 0 | В | 2120 0 | В | 3170 0 | Ε |
| Sodium | 13000 0 | | 11000 0 | | 11000 0 | | 10900 0 | | 11000 0 | |
| Zinc | 144 0 | | 139 0 | | 139 0 | | 144 0 | | 139 0 | |
| Suffate | 134000 0 | | 138000 0 | | 139000.0 | | 140000.0 | | 139000 0 | |
| | (ppm) | | (ppm) | | (ppm) | | (ppm) | | (ppm) | |

D - diluted sample E - exceeded calibration range

LIST OF DATA QUALIFIERS

U — compound was not detected

J — estimated value

B — analyte was found in the blank as well as the sample

4 2 WASTEPILE

The JDSC operated a bulk petroleum storage facility at the Galena location for approximately 48 years beginning in 1945. Prior to occupation by the JDSC, the property was the location of several MGP's beginning in at least 1856. In 1993, the JDSC retained the services of DAHL to perform investigative activities on the property which addressed past operations of the bulk petroleum storage facility. One of the activities performed by DAHL was to determine the extent of contamination beneath the above ground storage tank area. Sample results indicated elevated concentrations of total Polynuclear Aromatic's (PNA), total carcinogenic PNA's, total hydrocarbons as gasoline, total hydrocarbons as diesel, and Benzene, Toluene, Ethylbenzene, and Xylene (BETX). DAHL estimated that 250 cubic yards of soil was excavated. The excavated soil was placed in a pile just south of the pit and covered with a six millimeter plastic. The wastepile still remains on the JDSC property and the plastic covering is still in tact over most of the pile.

During 1995 Integrated Assessment field activities, the constituents of the pile were determined by using soil sample point X102. The sample was taken from the northwest portion of the wastepile. This pile of contaminated soil was a result the subsurface environmental investigation conducted by DAHL in 1993. Within the pile, levels of semi-volatile contaminants were detected above background concentrations. Specific semi-volatile contaminants detected within sample X102 were Benzo(a)pyrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Benzo(b)fluoranthene, and Chrysene.

4 3 CONTAMINATED SOIL

One of the tasks performed in the 1993 investigation by DAHL was the trenching and sampling of ten test pits on and off of the JDSC property. The test pits were excavated to depths ranging from 8 feet to 19 feet. Sample results indicated elevated levels of BETX, hydrocarbons as gasoline and diesel, PNA's, and carcinogenic PNA's.

During the 1995 CERCLA Integrated Assessment, sample point X104/X105 was collected from the northwest wall on the pit—Sample point X106 was taken from the bottom of the pit—Specific semi-volatile contaminants detected within these two sample points were Naphthalene, 2-Methyl naphthalene, Phenanthrene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Benzo(k)fluoranthene, Ideno(1,2,3-cd)pyrene, and Benzo(g,h,i)perylene—Sample point X106 contained high levels of Benzene, Ethylbenzene, and Xylene—These two sample locations indicate elevated levels of soil contamination still exist in the immediate area of excavations

The analytical results from the Integrated Assessment and the 1993 DAHL investigation reveal soil contamination exists on the JDSC property at varying depths and locations. Due to the nature of these investigations the exact area of contaminated soil has not been delineated at this time.

5 DISCUSSION OF MIGRATION PATHWAYS

5 1 INTRODUCTION

The CERCLA Site Assessment Program identifies three migration pathways and one exposure pathway by which hazardous substances may pose a threat to human health and/or the

environment Consequently, sites are evaluated on their known or potential impact to these four pathways. The pathways evaluated are groundwater migration, surface water migration, soil exposure, and air migration.

This section presents and discusses information collected during the CERCLA Integrated

Assessment of the JDSC This information, together with information documented in other sources, will be utilized in analyzing the site's impact on the four pathways and the various human and environmental targets within the established target distance limits

Discussions of the pathways will include pathway description, contaminant sources, and targets such as human population, fisheries, endangered species, wetlands, and other sensitive environments

52 GROUNDWATER

Information from the Jo Daviess County Soil Survey indicate surface soils within the JDSC property consist mostly of silts and clays. The 1995 Integrated Assessment also indicated the presence of building debris such as brick, concrete, wire, and metal pipes mixed with surface soils. The report produced by DAHL indicated that a non-uniform sand lens ranging from 10 - 20 feet below the surface was present along the central and eastern edges of the property. A clay layer can be found approximately 20 feet below the surface and is somewhat uniform throughout the JDSC property. The clay layer continued to approximately 40 feet in depth at which time bedrock could be encountered. Present within the bedrock is Niagra dolomites or Galena limestones. Information from area well logs indicate most groundwater in the area is drawn from the Niagra dolomites and Galena limestones within the bedrock.

One of the activities which took place during the 1993 investigation performed by DAHL was the installation and periodic groundwater measurements of five monitor wells on the JDSC property. During their installation, three potential groundwater bearing units were encountered. The first was encountered at 8 feet below the surface. Monitor well 1 accesses this particular aquifer. Monitor wells 2, 3, 4, and 5 access a second potential groundwater bearing unit located at 15 to 17 feet below the surface. Additional test borings indicated a third groundwater bearing unit located 30 feet below the surface. Static groundwater elevations were periodically measured and determined that groundwater flowed in an easterly direction toward the Galena River.

Information generated from local well logs indicated the presence of fourteen wells within approximately 3/4 mile of the JDSC property. The well logs indicate water is being drawn from aquifers present in the Niagra dolomites and Galena limestones. As previously mentioned, the closest well is located approximately 220 feet south of the JDSC property. No specific record exists on the well but according to the property owner, the well is approximately 110 feet deep. The depth of the well indicates that water for this well is being drawn from an aquifer located within the dolomite or limestone layers.

Personnel from the City of Galena indicated there are two wells which supply most of the city with drinking water. Both wells are approximately 1600 feet in depth and located upgradient from the JDSC property. One well is located approximately ½ mile to the northwest along Gear St. The other well is located approximately 2 miles to the north of the site. Due to their depth and their upgradient location, these wells were not evaluated for the groundwater pathway.

There were eight groundwater samples collected during the sampling event conducted

during the Integrated Assessment of November 20 - 21, 1995 Six samples were taken from monitor wells while two were collected from a private residential well. Sample Point G104 (Monitor Well 4) contained elevated levels of volatile and semi-volatile constituents above cleanup objectives set forth by Illinois EPA's Tiered Approach to Cleanup Objectives. The sample taken at the residential well (G201/G202) did not reveal any elevated levels of contaminants of concern

5 3 SURFACE WATER

Excess surface water from the JDSC property appears to flow toward the Galena River through a small drainage pipe located beneath South Water Street. The water appears to flow in an easterly direction for approximately 200 feet before entering the Galena River along its eastern bank. The eastern shoreline of the Galena River was determined to be the Probable Point of Entry (PPE) for the surface water pathway. From this location, the Galena River flows southerly until joining with the Mississippi River approximately four miles downstream near. Portage, Illinois. The surface water pathway reaches the Target Distance Limit (TDL) just south of Lock and Dam Number 12 on the Mississippi River. According to the Illinois Department of Natural Resources (DNR) Illinois Fishing Guide, the Galena River and Mississippi River are both listed as fisheries. Information from Wetlands Inventory Maps indicated wetlands are associated with the entire length of the surface water pathway.

There are no surface water intakes along the 15 mile surface water route. The site is located within the 100 year flood zone as designated by Federal Emergency Management Flood. Insurance Map (#170902 0150 B). The Galena River is used for recreational purposes according.

to the Illinois DNR

Six surface water and six sediment samples were collected during CERCLA Integrated Assessment sampling activities. These samples were taken in order to determine if hazardous substances may have migrated present in the Galena River as a result of past activities on the JDCS property. The collection of these samples indicated no attributable sediment or surface water contamination exists within the Galena River that could be attributed to past operations at the JDSC property.

5 4 SOIL EXPOSURE

The JDSC property has been used for industrial purposes for over 135 years. Beginning in 1856, the property was the location for MGP's and continued until 1945. After 1945 the JDSC utilized the property as a bulk petroleum storage facility. Since at least 1993 the property has remained vacated and void of any buildings, tanks, or other structures. A large excavated pit and wastepile have been present since 1993 and still remain. Access is not restricted to the facility.

Using U S Geological Survey topographic maps (Appendix A) and U S Census data, an estimated 1274 people live within one mile of the JDSC property. According to the Illinois DNR, there are no sensitive environments on-site or within ½ mile from the site. The nearest resident is located approximately 220 feet south of the JDSC property. There were no schools or daycare facilities located on-site or within 200 feet of observed contamination.

There were seven soil samples collected from six locations during the Integrated

Assessment Samples X102, X104/X105, and X106 indicated elevated levels of contamination

present within the soil of the JDSC property—Sample X102 was collected from the pile of excavated soil which has remained at its present location since remedial activities were conducted by DAHL in 1993—Elevated levels of semi-volatile contaminants were detected in the sample collected from the waste pile—The DAHL report indicated 250 cubic yards of contaminated soil were removed from the pit—Samples X104/X105 and X106 were collected from exposed portions of the excavated pit and suggest elevated levels of semi-volatile and volatile contaminants are still present within that area—Levels of detected contaminants did not exceed CERLCA Removal Action Levels or Illinois EPA's Tiered Approach to Cleanup Objectives

Table 5-1
Nearby population within one-mile of the site

| Distance (mi) | Populatio | <u>n</u> |
|---------------|-----------|----------|
| On-site | | 0 |
| 0 - 1/4 | | 167 |
| 1/4 - 1/2 | = | 457 |
| 1/2 - 1 | | 1083 |
| | TOTAL | 1707 |

The number of people were calculated using 2 61 people per household in Jo Daviess County, as established by the U S Census Bureau for this county

5 5 AIR ROUTE

During the November 20 - 21, 1995 Integrated Assessment, there were no formal air samples collected. A Foxboro Toxic Vapor Analyzer Model 1000 was used to screen ambient air around the site and air within the breathing zone at each sample point. Background readings for both the PID and FID taken prior to sample collection revealed levels varying from 1 - 1 ½

meter units

Within a four-mile radius of the JDSC site, the population was estimated to be approximately 2871 people. The facility is no longer active and does not have any workers present on the property. The closest resident is located approximately 220 feet south of the JDSC property. According to the Illinois DNR, there are no known occurrences of listed endangered or threatened species, Illinois Natural Area Inventory sites, or Nature Preserves within the vicinity of the JDSC site. There are no schools or day care facilities located within 200 feet of observed contamination. The approximate number of individuals potentially exposed to air-borne contaminants are listed in Table 5-2. The nearest resident is located approximately 220 feet south of the JDSC property.

Table 5-2
Individuals potentially exposed to air-borne contaminants

| Distance | Population | <u>n</u> |
|-----------|------------|----------|
| On-site | | 0 |
| 0 - 1/4 | | 167 |
| 1/4 - 1/2 | | 475 |
| 1/2 - 1 | | 1083 |
| 1 - 2 | | 723 |
| 2 - 3 | | 211 |
| 3 - 4 | | 230 |
| | TOTAL | 2871 |

The number of people were calculated using 2 61 people per household in Jo Daviess County, as established by the U.S. Census Bureau for this county

6 BIBLIOGRAPHY

- Bureau of the Census, 1990 U.S. Census of Population and Housing-Summary Population and Housing Characteristics Illinois, August 1991
- Federal Emergency Management Agency, Flood Insurance Rate Map Number 170902 0150 B, January 18, 1984
- Illinois Department of Transportation aerial photographs, Bureau of Location and Environment, Aerial Survey Section, 1970, 1988, and 1994
- Illinois Environmental Protection Agency, Bureau of Land, file for Jo Daviess Farm Service, LPC# 0850200020
- U S Geological Survey Topographic Map 1968, Galena, IL Iowa Quadrangle, 7 5 Minute Series 1 24,000
- U S Geological Survey Topographic Map 1968, Bellevue, Iowa IL Quadrangle, 7 5 Minute Series 1 24,000
- U S Geological Survey Topographic Map 1968, Hanover Quadrangle, 7 5 Minute Series 1 24,000
- U S Geological Survey Topographic Map 1975, Scales Mound West Quadrangle, 7 5 Minute Series 1 24,000
- Illinois Department of Natural Resources, Division of Natural Resource Review and Coordination, Deanna Glosser, November 7, 1995
- Rainfall Frequency Atlas of the United States, Technical Paper Number 40, U S Department of Commerce, U S Government Printing Office, Washington D C, 1963

SDMS US EPA Region V

Imagery Insert Form

Some images in this document may be illegible or unavailable in SDMS. Please see reason(s) indicated below:

| Illegible due to bad source documents. Image(s) in SDMS is equivalent to hard copy. |
|---|
| Specify Type of Document(s) / Comment |
| |
| Confidential Business Information (CBI). This document contains highly sensitive information. Due to confidentiality, materials with such information are not available in SDMS. You may contact the EPA Superfund Records Manager if you wish to view this document. |
| Specify Type of Document(s) / Comment |
| |
| Unscannable Material: Oversized X or Format. Due to certain scanning equipment capability limitations, the document page(s) is not available in SDMS. The original document is available for viewing at the Superfund Records center. Specify Type of Document(s) / Comment |
| 4-MILE RADIUS MAP |
| Other: |
| |
| |

APPENDIX B TARGET COMPOUND LIST

TARGET COMPOUND LIST

Volatile Target Compounds

| Chloromethane | 1 2 Dichloropropane |
|----------------------------|---------------------------|
| Bromomethane | cis-1 3-Dichloropropene |
| Vinyl Chlorde | Trichloroethene |
| Chloroethane | Dibromochloromethane |
| Methylene Chloride | 1 1 2-Trichloroethane |
| Acetone | Benzene |
| Carbon Disulfide | trans-1 3-Dichloropropene |
| 1 1 Dichloroethene | Bromoform |
| 1 1 Dichloroethane | 4-Methyl-2-pentanone |
| 1 2-Dichloroehtene (total) | 2-Hexanone |
| Chloroform | Tetrachloroethene |
| 1 2 Dichloroethane | 1 1 2 2-Tetrachloroethane |
| 2 Butanone | Toluene |
| 1 1 1 Trichloroethane | Chlorobenzene |
| Carbon Tetrachlonde | Ethylbenzene |
| Vinyl Acetate | Styrene |
| Bromodichloromethane | Xylenes (total) |

Base/Neutral Target Compounds

| Hexachloroethane | 2 4-Dinitrotoluene |
|-------------------------------|---------------------------|
| bis(2 Chloroethyl) Ether | Diethylphthalate |
| Benzyl Alcohol | N-Nitrosodiphenylamine |
| bis (2-Chloroisopropyl) Ether | Hexachlorobenzene |
| N-Nitroso Di-n-Propylamine | Phenanthrene |
| Nitrobenzene | 4-Bromophenyl-phenylether |
| Hexachlorobutadiene | Anthracene |

| 2-Methylnaphthalene | Di-n-Butylphthalate |
|----------------------------|----------------------------|
| 1 2 4-Trichlorobenzene | Fluoranthene |
| Isophorone | Pyrene |
| Naphthalene | Butylbenzylphthalate |
| 4 Chloroaniline | bis(2-Ethylhexyl)Phthalate |
| bis(2 chloroethoxy)Methane | Chrysene |
| Hexachlorocyclopentadiene | Benzo(a)Anthracene |
| 2 Chloronaphthalene | 3-3 -Dichlorobenzidene |
| 2 Nitroaniline | Dı-n-Octyl Phthalate |
| Acenaphthylene | Benzo(b)Fluoranthene |
| 3 Nitroaniline | Benzo(k)Fluoranthene |
| Acenaphthene | Benzo(a)Pyrene |
| Dibenzofuran | Ideno(1 2 3-cd)Pyrene |
| Dimethyl Phthalate | Dibenz(a h)Anthracene |
| 2 6 Dinitrotoluene | Benzo(g h ı)Perylene |
| Fluorene | 1 2-Dichlorobenzene |
| 4 Nitroaniline | 1 3-Dichlorobenzene |
| 4 Chlorophenyl phenylether | 1 4 Dichlorobenzene |

Acid Target Compounds

| Benzoic Acid | 2 4 6 Trichlorophenol |
|--------------------|----------------------------|
| Phenol | 2 4 5-Tnchlorophenol |
| 2 Chlorophenol | 4-Chloro-3-methylphenol |
| 2 Nitrophenol | 2 4 Dinitrophenol |
| 2 Methylphenol | 2-Methyl-4 6-dinitrophenol |
| 2 4 Dimethylphenol | Pentachlorophenol |
| 4 Methylphenol | 4-Nitrophenol |
| 2 4 Dichlorophenol | |

Pesticide/PCB Target Compounds

| alpha-BHC | Endnn Ketone |
|---------------------|--------------------|
| aipha-BhC | |
| beta-BHC | Endosulfan Sulfate |
| delta BHC | Methoxychlor |
| gamma-BHC (Lindane) | alpha-Chlordane |
| Heptachlor | gamma-Chlordane |
| Aldrin | Toxaphene |
| Heptachlor epoxide | Aroclor-1016 |
| Endosulfan I | Aroclor-1221 |
| 4 4 -DDE | Aroclor-1232 |
| Dieldrin | Aroclor-1242 |
| Endrin | Aroclor-1248 |
| 4 4 DDD | Aroclor-1254 |
| Endosulfan II | Aroclor-1260 |
| 4.4 DDT | |

Inorganic Target Compounds

| Aluminum | Manganese |
|-----------|-----------|
| Antimony | Mercury |
| Arsenic | Nickel |
| Banum | Potassium |
| Beryllium | Selenium |
| Cadmium | Silver |
| Calcium | Sodium |
| Chromium | Thallium |
| Cobolt | Vanadium |
| Copper | Zinc |
| Iron | Cyanide |
| Lead | Sulfide |
| Magnesium | |

APPENDIX C IEPA SAMPLE PHOTOGRAPHS

| DATE:November 20, 1995 |
|---|
| TIME: 8:30 a.m. |
| PHOTOGRAPH TAKEN BY: |
| Bruce Everetts |
| PHOTOGRAPH NUMBER:1_ |
| LOCATION: <u>Jo Daviess Service Co.</u> |
| LPC 0850200020 Jo Daviess Co. |
| PICTURE TAKEN TOWARD: $\underline{}$ |
| COMMENTS: Photo taken of sample |
| points X205 and S105 along the west |
| shore of the Galena River south of the |
| Jo Daviess Service Co. property |
| |



TIME: 8:30 a.m.

PHOTOGRAPH TAKEN BY:

Bruce Everetts

PHOTOGRAPH NUMBER: 2

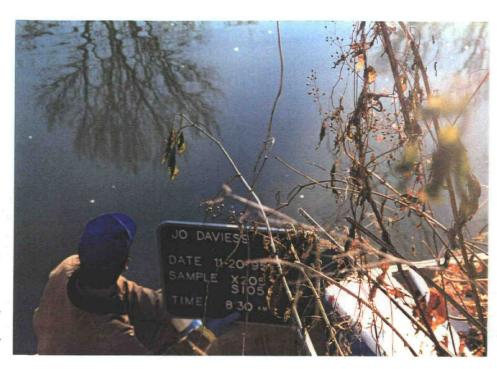
LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

PICTURE TAKEN TOWARD: SE

COMMENTS: Photo taken of sample points X205 and S105 along the west shore of the Galena River south of the Jo Daviess Service Co. property

DATE: November 20, 1995



DATE: ______November 20, 1995

TIME: ______9:30 a.m.

PHOTOGRAPH TAKEN BY:
______Bruce Everetts

PHOTOGRAPH NUMBER: _____3

LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

PICTURE TAKEN TOWARD: ____N

COMMENTS: Photo taken of sample
points X204 and S104 along the west
shore of the Galena River south of the
Jo Daviess Service Co. property



TIME: _____9:30 a.m.

PHOTOGRAPH TAKEN BY:
_____Bruce Everetts

PHOTOGRAPH NUMBER: ___4

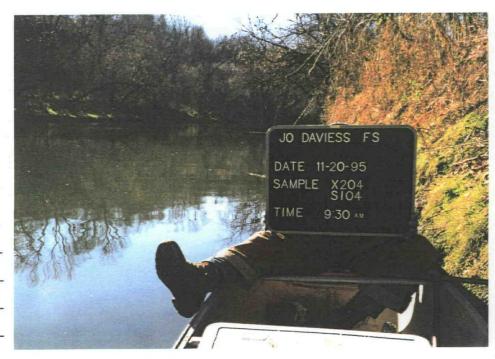
LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

PICTURE TAKEN TOWARD: __S

COMMENTS: Photo taken of sample
points X204 and S104 along the west
shore of the Galena River south of the
Jo Daviess Service Co. property

DATE: _____ November 20, 1995



DATE: November 20, 1995

TIME: 10:00 a.m.

PHOTOGRAPH TAKEN BY:

Bruce Everetts

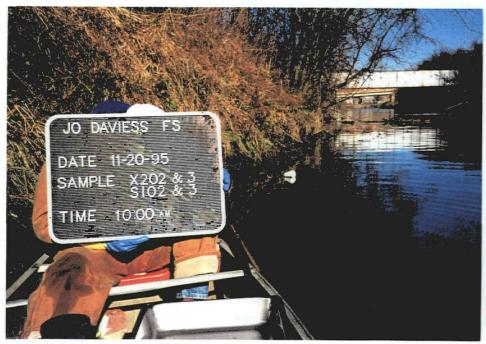
PHOTOGRAPH NUMBER: 5

LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

PICTURE TAKEN TOWARD: S

COMMENTS: Photo taken of sample point X202/X203 and S102/S103 along the west shore of the Galena River east of the Jo Daviess Service Co. property



TIME: ______10:00 a.m.

PHOTOGRAPH TAKEN BY: ______

Bruce Everetts

PHOTOGRAPH NUMBER: _____6

LOCATION: Jo Daviess Service Co.

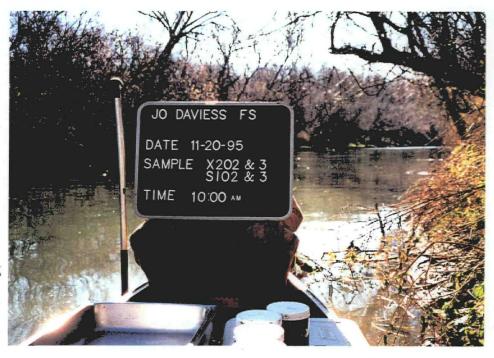
LPC 0850200020 Jo Daviess Co.

PICTURE TAKEN TOWARD: __S

COMMENTS: Photo taken of sample

point X202/X203 and S102/S103 along
the west shore of the Galena River east
of the Jo Daviess Service Co. property

DATE: November 20, 1995



DATE: November 20, 1995

TIME: 10:30 a.m.

PHOTOGRAPH TAKEN BY:
Bruce Everetts

PHOTOGRAPH NUMBER: 7

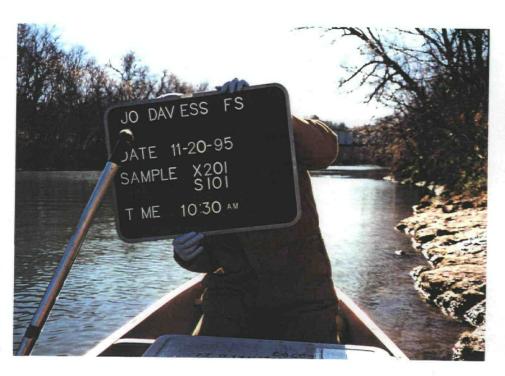
LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

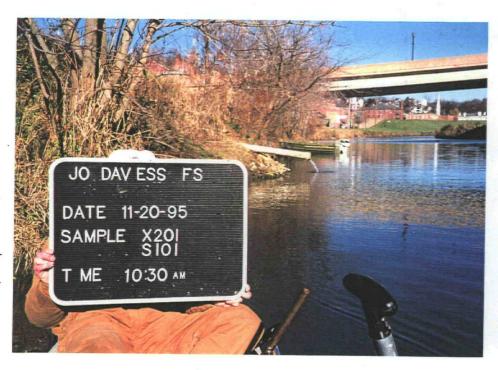
PICTURE TAKEN TOWARD: S

COMMENTS: Photo taken of sample point X201 and S101 along the west shore of the Galena River north of the

Jo Daviess Service Co. property



DATE: November 20, 1995



DATE: November 20, 1995

TIME: 12:45 p.m.

PHOTOGRAPH TAKEN BY:

Bruce Everetts

PHOTOGRAPH NUMBER: __11__

LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

PICTURE TAKEN TOWARD: NW

COMMENTS: Photo taken of sample

point G103 located at Monitor Well #3

found along the northeast portion of

the Jo Daviess Service Co. property



DATE: _____ November 20, 1995

TIME: 12:45 p.m.

PHOTOGRAPH TAKEN BY:

Bruce Everetts

PHOTOGRAPH NUMBER: ___12__

LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

PICTURE TAKEN TOWARD: NE

COMMENTS: Photo taken of sample

point G103 located at Monitor Well #3

found along the northeast portion of

Jo Daviess Service Co. property



DATE: November 20, 1995

TIME: 1:00 p.m.

PHOTOGRAPH TAKEN BY:

Bruce Everetts

PHOTOGRAPH NUMBER: 13

LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

PICTURE TAKEN TOWARD: E

COMMENTS: Photo taken of sample

point G105 & G106 (duplicate)

located at Monitor Well #5 along the

southern portion of the JDSC property



DATE: November 20, 1995

TIME: 1:00 p.m.

PHOTOGRAPH TAKEN BY:

Bruce Everetts

PHOTOGRAPH NUMBER: 14

LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.__

PICTURE TAKEN TOWARD: _ W_

COMMENTS: Photo taken of sample

point G105 & G106 (duplicate)

located at Monitor Well #5 along the

southern portion of the JDSC property



DATE: November 20, 1995

TIME: 2:35 p.m.

PHOTOGRAPH TAKEN BY:
Bruce Everetts

PHOTOGRAPH NUMBER: 15

LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

PICTURE TAKEN TOWARD: W

COMMENTS: Photo taken of sample

point G201 & G202 (duplicate)

located at a residential well south of

the Jo Daviess Service Co. property



DATE: ______November 20, 1995

TIME: ______2:35 p.m.

PHOTOGRAPH TAKEN BY:
______Bruce Everetts

PHOTOGRAPH NUMBER: ____16

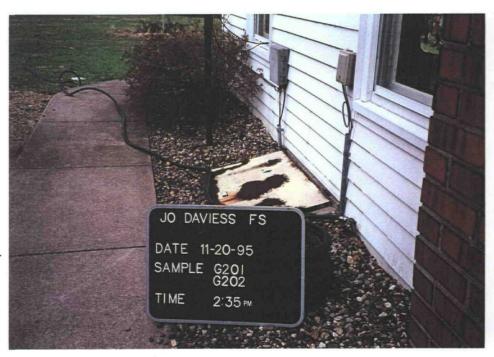
LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

PICTURE TAKEN TOWARD: ___N

COMMENTS: Photo taken of sample
point G201 & G202 (duplicate)

located at a residential well south of
the Jo Daviess Service Co. property



DATE: ______November 20, 1995

TIME: ______3:35 p.m.

PHOTOGRAPH TAKEN BY:
______Bruce Everetts

PHOTOGRAPH NUMBER: _____17

LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

PICTURE TAKEN TOWARD: __S

COMMENTS: Photo taken of sample point X102 collected from the north side of a pile of excavated soil within

the Jo Daviess Service Co. property



TIME: ______3:35 p.m.

PHOTOGRAPH TAKEN BY:
______Bruce Everetts

PHOTOGRAPH NUMBER: _____18

LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

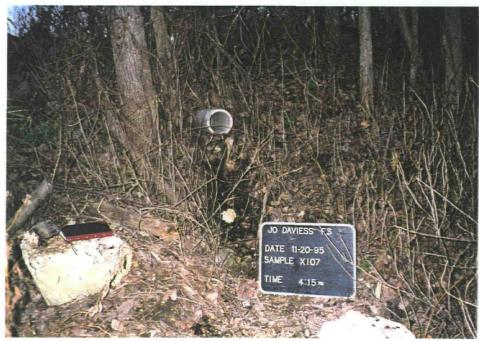
PICTURE TAKEN TOWARD: __E

COMMENTS: Photo taken of sample
point X102 collected from the north
side of a pile of excavated soil within
the Jo Daviess Service Co. property

DATE: November 20, 1995



| DATE. November 20, 1993 |
|---|
| TIME: 4:15 p.m. |
| PHOTOGRAPH TAKEN BY: |
| Bruce Everetts |
| PHOTOGRAPH NUMBER: 19 |
| LOCATION: Jo Daviess Service Co. |
| LPC 0850200020 Jo Daviess Co. |
| PICTURE TAKEN TOWARD: <u>NW</u> |
| COMMENTS: Photo taken of sample |
| point X107 located beneath a drainage |
| pipe east of the Jo Daviess Service Co. |
| property |



TIME: _____4:15 p.m.

PHOTOGRAPH TAKEN BY:
_____Bruce Everetts

PHOTOGRAPH NUMBER: ___20

LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

PICTURE TAKEN TOWARD: __N

COMMENTS: Photo taken of sample
point X107 located beneath a drainage
pipe east of the Jo Daviess Service Co.
property

DATE: _____ November 20, 1995__



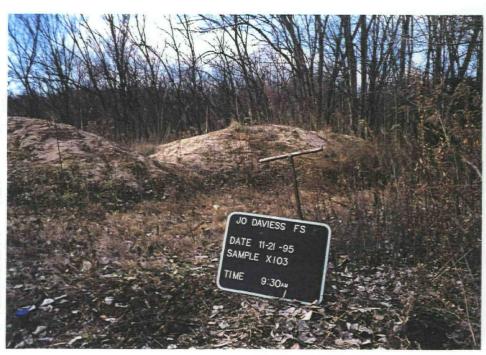
| DATE: | November 21, 1995 |
|----------------|--------------------------|
| TIME: | 9:30 a.m. |
| PHOTOGRA | APH TAKEN BY: |
| Bruce | Everetts |
| PHOTOGRA | APH NUMBER: 21 |
| LOCATION: | Jo Daviess Service Co. |
| LPC 0850200 | 0020 Jo Daviess Co. |
| PICTURE TA | AKEN TOWARD: N |
| COMMENT | S: Photo taken of sample |
| point X103 lo | ocated along the east |
| portion of the | e Jo Daviess Service Co. |
| property | |

DATE.



TIME: 9:30 a.m. PHOTOGRAPH TAKEN BY: Bruce Everetts PHOTOGRAPH NUMBER: 22 LOCATION: Jo Daviess Service Co. LPC 0850200020 Jo Daviess Co. PICTURE TAKEN TOWARD: W COMMENTS: Photo taken of sample point X103 located along the east portion of the Jo Daviess Service Co. property_

DATE: _____ November 21, 1995



DATE: November 21, 1995

TIME: 10:15 a.m.

PHOTOGRAPH TAKEN BY:

Bruce Everetts

PHOTOGRAPH NUMBER: 23

LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

PICTURE TAKEN TOWARD: <u>SW</u>

COMMENTS: Photo taken of sample

point G101 (background) located at

Monitor Well #1 found along the west

portion of the JDSC property



DATE: November 21, 1995

TIME: 10:15 a.m.

PHOTOGRAPH TAKEN BY:

Bruce Everetts

PHOTOGRAPH NUMBER: 24

LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

PICTURE TAKEN TOWARD: NW

COMMENTS: Photo taken of sample

point G101 (background) located at

Monitor Well #1 found along the west

portion of the JDSC property



| DATE: <u>November 21, 1995</u> | THE WALL TO THE WA |
|--------------------------------------|--|
| TIME:10:45 a.m. | |
| PHOTOGRAPH TAKEN BY: | |
| Bruce Everetts | 李元光 |
| PHOTOGRAPH NUMBER: 25 | |
| LOCATION: Jo Daviess Service Co. | |
| LPC 0850200020 Jo Daviess Co. | JO DAVIESS FS |
| PICTURE TAKEN TOWARD: W | DATE 11-21 -95 SAMPLE XI04 XI05 |
| COMMENTS: Photo taken of sample | TIME 1045.w |
| point X104/X105 (duplicate) along | |
| western wall of the excavated pit on | |
| the Jo Daviess Service Co. property | |
| | |
| | |
| | |
| | |
| | |
| | |
| DATE: | * |
| TIME: | |
| PHOTOGRAPH TAKEN BY: | |
| PHOTOGRAPH TAKEN BY: | |
| PHOTOGRAPH TAKEN BY: | |
| PHOTOGRAPH NUMBER: | NO PHOTO TAKEN |
| PHOTOGRAPH NUMBER: | NO PHOTO TAKEN |
| | NO PHOTO TAKEN |
| PHOTOGRAPH NUMBER: | NO PHOTO TAKEN |
| PHOTOGRAPH NUMBER: | NO PHOTO TAKEN |
| PHOTOGRAPH NUMBER: LOCATION: | NO PHOTO TAKEN |

DATE: _____ November 21, 1995

TIME: 10: 45 a.m.

PHOTOGRAPH TAKEN BY:

Bruce Everetts

PHOTOGRAPH NUMBER: ___26___

LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

PICTURE TAKEN TOWARD: __E_

COMMENTS: Photo taken of sample

point G104 located at Monitor Well #4

found along the southeast portion of

the Jo Daviess Service Co. property



DATE: _____ November 21, 1995___

TIME: 10:45 a.m.

PHOTOGRAPH TAKEN BY:

Bruce Everetts

PHOTOGRAPH NUMBER: __27__

LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

PICTURE TAKEN TOWARD: N

COMMENTS: Photo taken of sample

point G104 located at Monitor Well #4

found along the southeast portion of

the Jo Daviess Service Co. property



DATE: November 21, 1995

TIME: 11:15 a.m.

PHOTOGRAPH TAKEN BY:
Bruce Everetts

PHOTOGRAPH NUMBER: 28

LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

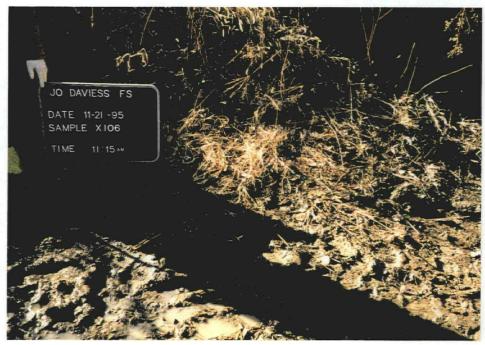
PICTURE TAKEN TOWARD: SE

COMMENTS: Photo taken of sample

point X106 located at the bottom of the

excavated pit found on the Jo Daviess

Service Co. property



TIME: ______11:15 a.m.

PHOTOGRAPH TAKEN BY:

_______Bruce Everetts

PHOTOGRAPH NUMBER: _____29

LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

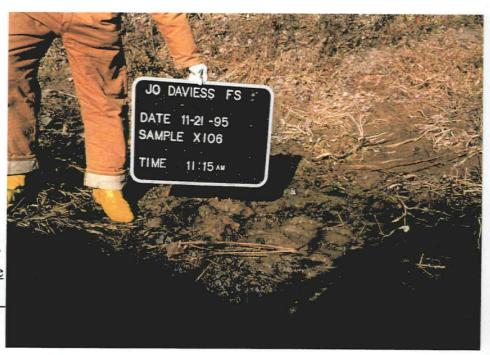
PICTURE TAKEN TOWARD: ____NW_

COMMENTS: Photo taken of sample

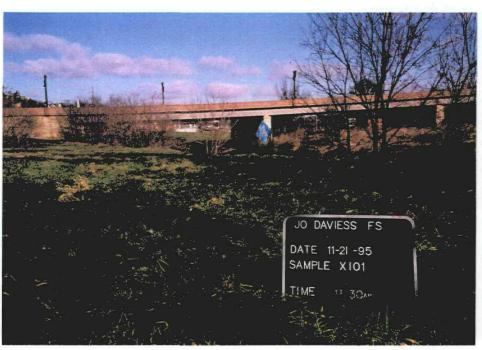
point X106 located at the bottom of the
excavated pit found on the Jo Daviess

Service Co. property

DATE: November 21, 1995



| DATE: <u>November 21, 1995</u> | | | |
|--------------------------------------|--|--|--|
| TIME:11:30 p.m. | | | |
| PHOTOGRAPH TAKEN BY: | | | |
| Bruce Everetts | | | |
| PHOTOGRAPH NUMBER:30 | | | |
| LOCATION: Jo Daviess Service Co. | | | |
| LPC 0850200020 Jo Daviess Co. | | | |
| PICTURE TAKEN TOWARD: NE | | | |
| COMMENTS: Photo taken of sample | | | |
| point X101 (soil background) located | | | |
| north of the Jo Daviess Service Co. | | | |
| property | | | |



TIME: _____11:30 a.m.

PHOTOGRAPH TAKEN BY:

______Bruce Everetts

PHOTOGRAPH NUMBER: ___31

LOCATION: Jo Daviess Service Co.

LPC 0850200020 Jo Daviess Co.

PICTURE TAKEN TOWARD: __E

COMMENTS: Photo taken of sample
points X101 (soil background) located
north of the Jo Daviess Service Co.

property

DATE: November 21, 1995



APPENDIX D AERIAL PHOTOGRAPHS



Site Inspection Report

\$EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT ART 1 SITE LOCATION AND INSPECTION INFORMATION

LIDENTIFICATION

01 STATE 02 SITE NUMBER

TL NA

PART 1 SITE LOCATION AND INSPECTION INFORMATION 80010217 II SITE NAME AND LOCATION 02 STREET ROUTE NO OR SPECIFIC LOCATION IDENTIFIER JO DAVIESS Y'SERVICE COMPANY SOUTH WATER STREET 04 STATE 05 ZIP CODE 06 COUNTY OTCOUNTY OF CONG IL 61036 Jo DAVIESS GALENA 085 09 COORDINATES 10 TYPE OF OWNERSHIP (Check one 10 26 13 0 042 23 51 0 □ C STATE □ D COUNTY □ E MUNICIPAL A PRIVATE B FEDERAL G UNKNOWN ☐ F OTHER -III INSPECTION INFORMATION 02 SITE STATUS 03 YEARS OF OPERATION 01 DATE OF INSPECTION ☐ AÇTIVE 1856 1993 UNKNOWN 1 / 20/ 95 **■** INACTIVE BEGINNING YEAR ENDING YEAR 04 AGENCY PERFORMING INSPECTION (Check all that apply) ■ A EPA □ B EPA CONTRACTOR . _ C MUNICIPAL D MUNICIPAL CONTRACTOR _ ☐ E STATE ☐ F STATE CONTRACTOR _ _ D G OTHER (Name of tirm) 05 CHIEF INSPECTOR 07 ORGANIZATION OR TITLE OB TELEPHONE NO TEPA (217)524 1663 EVERETTS EPS III BRUCE 09 OTHER INSPECTORS 1 ORGANIZATION 10 TITLE 12 TELEPHONE NO BRAD IEPR (217)524 1660 FPS III AYLOR EPS III TEPA (217)524 1664 KEN CORKILL MARK DENSMORE EPS II IEPA (217)785 8725 EPS III PETE SORENSEN IEPA (217)524-1657 1 15ADORESS Box 249 13 SITE REPRESENTATIVES INTERVIEWED 14 TITLE 16 TELEPHONE NO Manager Jo ERTMER (815) Z35 6035 Day ess Service Co. MARION Elizabeth IL 61028 FEHR GRAHAM 660 W Stephenson St MICH GRONEWALD + ASSOCIATES (815)235-7643 FRESPORT TL 61032))) 17 ACCESS GAINED BY 18 TIME OF INSPECTION 19 WEATHER CONDITIONS **PERMISSION** 8 00 Am SUNNY, UPPER 20°s ☐ WARRANT IV INFORMATION AVAILABLE FROM 01 CONTACT 02 OF (Agency/Organization) 03 TELEPHONE NO MARION ERTMER JO DAUIESS SERVICE COMPANY (815)235 6055 04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM 06 ORGANIZATION 05 AGENCY 07 TELEPHONE NO. OB DATE BRUCE EVERETTS 217/782 6760 11 / 20 / 9.5 MONTH DAY YEAR TEPA

| | \$EPA |
|---|--------------------|
| I | II WASTE STATES |
| ı | 01 PHYSICAL STATES |

POTENTIAL HAZARDOUS WASTE SITE

L IDENTIFICATION

| \$E | A | | | TION REPORT E INFORMATION | l | 227 788 | 010217 |
|-------------|----------------------------------|----------------------|------------------------------------|------------------------------|-----------------------------|------------------|--------------------------------|
| II WASTES | TATES QUANTITIES AN | D CHARACTER | ISTICS | | | - | ·- |
| | TATES (Check all that apply) | 02 WASTE QUANT | ITY AT SITE | 03 WASTE CHARACTE | RISTICS (Check all that app | pły) | |
| □ A SOUD | □ E SLURRY | | f waste quantities independent) | □ А ТОХОС | DE SOLUB | | |
| ☐ B POWDE | R FINES F LIQUID | TONS - | | ☐ B CORROS | | | |
| C SLUDGE | _ | CUBIC YARDS 4 | sooro 250yd | D PERSIST | | BLE LINCOMP | PATIBLE |
| B D OTHER | PILE | ŀ | 7 | | | □ M NOT AF | PLICABLE |
| | (Specify) | NO OF DRUMS _ | | <u> </u> | | | |
| III WASTET | YPE | | | | | | |
| CATEGORY | SUBSTANCE N | AME | 01 GROSS AMOUNT | 02 UNIT OF MEASURE | 03 COMMENTS | | |
| SLU | SLUDGE | | | | | | |
| OLW | OILY WASTE | | | | 1 | | |
| SOL | SOLVENTS | - | | | | | |
| PSD | PESTICIDES | - | | | - | | |
| occ | OTHER ORGANIC CH | IEMICALS | | | | | |
| IOC | INORGANIC CHEMIC | ALS | | | | | |
| ACD | ACIDS | | | | | | |
| BAS | BASES | | | | | | |
| MES | HEAVY METALS | | - | | | | |
| | | | 1 | | | | |
| | OUS SUBSTANCES (See Ap | | | | | | L OR MEASURE OF |
| 01 CATEGORY | 02 SUBSTANCE NA | | 03 CAS NUMBER | 04 STORAGE/DISP | OSAL METHOD | 05 CONCENTRATION | 06 MEASURE OF CONCENTRATION |
| | | | | | | | |
| | SEE TAB | | | | | | |
| | INTEGRATED | A 35 E 5 | SMENT R | EPORT | | | |
| | | | | | | | |
| | | · · | | - | _ | | |
| | · | | | - | | | |
| | | | | | | | |
| | | | - | | | | |
| | | | | | | | |
| | | - | - | | | | |
| | | | | | | | <u> </u> |
| | | | | | | | |
| | | | | | | | |
| | | | | | | . <u>.</u> | <u></u> |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| V SEEDSTO | CVC | - | 1 | | <u>.</u> | | L |
| | CKS (See Appendix for CAS Number | | <u></u> | | | | |
| CATEGORY | 01 FEEDSTOCE | (NAME | 02 CAS NUMBER | CATEGORY | 01 FEEDSTO | CK NAME | 02 CAS NUMBER |
| FDS | | | | FDS | | | |
| FDS | | | | FDS | | | |
| FDS | | | | FDS | | | |
| FDS | _ | | | FDS | | | |
| VI SOURCES | OF INFORMATION (C# 4 | nocific references ~ | Stat files semnie anature : | | | | · |
| | or in origination (of a | | enin mas sample energy (| | <u> </u> | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | l |
| | | | | | | | |

ŞEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION 01 STATE 02 SITE NUMBER

| | | ILT 18001021 |
|---|--|-----------------------|
| IL HAZARDOUS CONDITIONS AND INCIDENTS 01 □ A GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED Monitor Well 4 contained cl | 02 8 OBSERVED (DATE 11 20 95) 04 NARRATIVE DESCRIPTION EVALUATED LEVELS OF VOLATICE | ond semi volatile |
| contaminants | | |
| 01 G B SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED | 02 D OBSERVED (DATE) 04 NARRATIVE DESCRIPTION | ☐ POTENTIAL ☐ ALLEGED |
| None Documented or | Observed | |
| 01 C CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED | 02 OBSERVED (DATE) 04 NARRATIVE DESCRIPTION | □ POTENTIAL □ ALLEGED |
| None Documented or | Observed | |
| 01 D FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED | 02 □ OBSERVED (DATE) 04 NARRATIVE DESCRIPTION | ☐ POTENTIAL ☐ ALLEGED |
| None Documented or | Observed | |
| 01 DE DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED | | POTENTIAL ALLEGED |
| No workers are present be present | ut no restrictions to si | te access are |
| 01 D F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED (Accept) | 02 B OBSERVED (DATE 11 20 95) 04 NARRATIVE DESCRIPTION | |
| The wastepile was found | to contain contaminate so ubsurface soil contamination | oil Josefa |
| past activities on the pro | | W GOE TO |
| | operty | □ POTENTIAL □ ALLEGED |
| past activities on the pro | 02 OBSERVED (DATE) 04 NARRATIVE DESCRIPTION | |
| past activities on the production of the production potentially affected None Documented or Contain the production potentially affected One Documented or Contain the production potentially affected | 02 OBSERVED (DATE) 04 NARRATIVE DESCRIPTION | |
| past activities on the pro | 02 OBSERVED (DATE) 04 NARRATIVE DESCRIPTION 05 OBSERVED (DATE) 04 NARRATIVE DESCRIPTION | □ POTENTIAL □ ALLEGED |
| past activities on the pro 11 G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED None Documented or C 11 H WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED | 02 OBSERVED (DATE) 04 NARRATIVE DESCRIPTION 05 OBSERVED (DATE) 04 NARRATIVE DESCRIPTION | □ POTENTIAL □ ALLEGED |

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION

| SEPA | | SITE INSPECTION REPORT | JL STATE 102 | SITE NUMBER | | |
|--|--|---|--------------|-------------|--|--|
| ** | PART 3 DESCRIPT | ION OF HAZARDOUS CONDITIONS AND INCIDENTS | | 80010219 | | |
| II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued) | | | | | | |
| 01 D J DAMAGE TO 04 NARRATIVE DESCR | | 02 🗆 OBSERVED (DATE) | □ POTENTIAL | ☐ ALLEGED | | |
| None | Documented | Or Observed | | | | |
| 01 K DAMAGE TO 04 NARRATIVE DESCR | FAUNA (IPTION (Include name) apecie) | 02 G OBSERVED (DATE) | ☐ POTENTIAL | ☐ ALLEGED | | |
| None | Documented | or Observed | | | | |
| 01 L. CONTAMINAT 04 NARRATIVE DESCR | | 02 C OBSERVED (DATE) | □ POTENTIAL | □ ALLEGED | | |
| None | Documented | or Observed | | | | |
| O1 D M UNSTABLE C | ONTAINMENT OF WASTES | 02 OBSERVED (DATE) | ☐ POTENTIAL | □ ALLEGED | | |
| (Spits/Runoff/Sta | entially Affected | 04 NARRATIVE DESCRIPTION | E POIENIAL | D ALLEGED | | |
| None | Documented | or Observed | | | | |
| 01 D N DAMAGE TO 04 NARRATIVE DESCR | | 02 OBSERVED (DATE) | □ POTENTIAL | □ ALLEGED | | |
| None | Documented | or Observed | | | | |
| 01 O CONTAMINAT 04 NARRATIVE DESCR | | INS WWTPs 02 - OBSERVED (DATE) | D POTENTIAL | □ ALLEGED | | |
| None | Documented | or Observed | | | | |
| 01 D P ILLEGAL/UNA 04 NARRATIVE DESCR | UTHORIZED DUMPING | 02 OBSERVED (DATE) | □ POTENTIAL | □ ALLEGED | | |
| None | Documented o | r Observed | | | | |
| 05 DESCRIPTION OF A | NY OTHER KNOWN POTENTIA | AL, OR ALLEGED HAZARDS | | | | |
| | | | | | | |
| III TOTAL POPULAT | ON POTENTIALLY AFFECT | ED | | | | |
| IV COMMENTS | | | | | | |
| | | | _ | | | |
| V SOURCES OF INFORMATION (Cr. specific references g state files sample enalysis reports) | | | | | | |
| ZEPA File Information | | | | | | |
| | _ | 195 | | | | |

| A | Pi | F) A |
|---|----|------|
| | | |
| | | |

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION ADD A DEPOSIT AND DESCRIPTIVE INFORMATION

| | DADTA DEDMITAND | ON ZZ NA | |
|---|-------------------------|-------------------------------------|--------------------------------|
| | PAKI 4 PERMILAND | DESCRIPTIVE INFORMATION | ON TLT 180010217 |
| II PERMIT INFORMATION | | | |
| 01 TYPE OF PERMIT ISSUED (Check of that apply) | 02 PERMIT NUMBER 03 D/ | ATE ISSUED 04 EXPIRATION DATE | 05 COMMENTS |
| A NPDES | | | |
| □ B UIC | | | |
| □ C AIR | | | |
| □ D RCRA | | | |
| ☐ E RCRA INTERIM STATUS | | | |
| ☐ F SPCC PLAN | | | |
| G STATE (Specify) | | | |
| ☐ H LOCAL _(Specify) | | | |
| ☐ I OTHER (Specify) | | | |
| □ J NONE | | | |
| III SITE DESCRIPTION | | | |
| | AMOUNT 03 UNIT OF MEASE | URE 04 TREATMENT (Check of that app | 05 OTHER |
| ☐ A SURFACE IMPOUNDMENT | 4 | _ | |
| | 0x 250 yd3 | ■ □ B UNDERGROUND INJEC | CTION A BUILDINGS ON SITE |
| C DRUMS ABOVE GROUND | | - □ C CHEMICAL/PHYSICAL | |
| D TANK ABOVE GROUND | | - □ D BIOLOGICAL | |
| ☐ E TANK BELOW GROUND | | □ E WASTE OIL PROCESSI | ING OB AREA OF SITE |
| ☐ F LANDFILL | | - □ F SOLVENT RECOVERY | |
| ☐ G LANDFARM | | - ☐ G OTHER RECYCLING/R | ECOVERY APPROX 1.4 (ACTS) |
| ☐ H OPEN DUMP | | - HOTHER(Special | dv 1 |
| OTHER | | | ″ l |
| The pile is a result Dahl & Associates. To Davess Servee C IV CONTAINMENT OI CONTAINMENT OF WASTES (Check on) | Dahl & Asso | eld activities procedus were w | orking for the |
| ☐ A ADEQUATE SECURE | B MODERATE | C INADEQUATE POOR | ☐ D INSECURE UNSOUND DANGEROUS |
| 02 DESCRIPTION OF DRUMS DIKING LINERS BARRI | iers etc | | |
| V ACCESSIBILITY | | | |
| 01 WASTE EASILY ACCESSIBLE 19 YES 10 02 COMMENTS The most accessible comments | area is the pi | | |
| | | | 11 contain contaminated soil |
| VI SOURCES OF INFORMATION (Cit apocific | | z reports) | |
| IEPA Fle Information | | | |
| Integrated Assessmen | +, 1995 | | |
| • | | | |

| Ω | | |
|---|---|----|
| V | C | ГМ |

POTENTIAL HAZARDOUS WASTE SITE

| I IDENT | TEICATION |
|----------|----------------|
| OI STATE | 02 SITE NUMBER |
| | /V M |

| ŞEPA | | SITE INSPEC | | 01 STATE 02 SITE NUMBER | | | |
|--|---|---------------------------------|---------------------------------------|-------------------------|----------------------------|---|--|
| | PART 5 WATER | DEMOGRAPHI | IC AND E | NVIRONMI | ENTAL DATA | ILT 18000217 | |
| II DRINKING WATER SUPPLY | | | | | | | |
| 01 TYPE OF DRINKING SUPPLY (Check as applicable) | | 02 STATUS | | | | 03 DISTANCE TO SITE | |
| SURFACE | | ENDANGERE | | | MONITORED | | |
| COMMUNITY A. 🗆 | B □ | A. 🗆 | | | c 🗆 | A(mi) B 220 | |
| NON-COMMUNITY C | D 👭 | D 0 | E | | F 🗆 | B <u>220 </u> | |
| III GROUNDWATER | | | | | | | |
| 01 GROUNDWATER USE IN VICINITY (Check: | | | | | | | |
| ☐ A ONLY SOURCE FOR DRINKING | DRINKING (Other sources available COMMERCIAL, IN (No othe water source) | IDUSTRIAL, IRRIGATIO | n) | OMMERCIAL. | INDUSTRIAL, IRRIGAT | TION D NOT USED UNUSEABLE | |
| 02 POPULATION SERVED BY GROUND WAT | TER_UNKOGWD | | 03 DISTANC | E TO NEARES | ST DRINKING WATER | WELL 220 (m) Ft | |
| 04 DEPTH TO GROUNDWATER | 05 DIRECTION OF GRO | OUNDWATER FLOW | 06 DEPTH TO | | 07 POTENTIAL YIEL | LD 08 SOLE SOURCE AQUIFER | |
| | Souther | ع ده | 50 | (ft) | OF ALC: | (gpd) | |
| 09 DESCRIPTION OF WELLS (including usaage | | | | | <u> </u> | (Abo) | |
| Most area wells | | sent wt | 4.0 / | Vinara | dolomite | s or Galena | |
| | are pro | sene | **** | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| /·mestones | | | | | | | |
| 10 RECHARGE AREA | | | 11 DISCHAR | GE AREA | | | |
| ☐ YES COMMENTS | | ! | ☐ YES | COMMENT | rs | | |
| □ NO | | ! | □ NO | | | | |
| IV SURFACE WATER | | | | | | | |
| 01 SURFACE WATER USE (Check one) | | | | | | | |
| A RESERVOIR RECREATION DRINKING WATER SOURCE | | ON ECONOMICALLY NT RESOURCES | ,c | COMMERCIA | AL, INDUSTRIAL | D NOT CURRENTLY USED | |
| 02 AFFECTED/POTENTIALLY AFFECTED BO | ODIES OF WATER | | | | | | |
| NAME | | | | | AFFECTED | DISTANCE TO SITE | |
| Galena R ver | | | | | _ | 200 ft | |
| DAIENA IT VET | | - + | | | | | |
| | | | | | | (mi) | |
| V DEMOGRAPHIC AND PROPERT | Y INCORNATION | | | | | | |
| 01 TOTAL POPULATION WITHIN | YIRPORMATION | | | | DISTANCE TO NEARE | ECT CODES ATION | |
| | | | 05 | | DISTANCE TO READ | EST POPULATION | |
| | VO (2) MILES OF SITE 723 NO OF PERSONS | c | 3) MILES OF : 211 NO OF PERSONS | | _52 | Oft (pril) | |
| 03 NUMBER OF BUILDINGS WITHIN TWO (2) |) MILES OF SITE | | 04 DISTANC | E TO NEARES | ST OFF-SITE BUILDING | | |
| | | ı | | | | | |
| | | | | | | (mi) | |
| 05 POPULATION WITHIN VICINITY OF SITE (| | nature of population within | vicinity of site e g |) rural, village d | lensely populated urban en | ne) | |
| 0-14 m le 167 peo | | 70 | tal | 2871 | people w | utho 4 m les | |
| 14 1/2 m le 457 peo | ple | | | | - | | |
| 1/2 1 m le 1083 per | | | | | | | |
| 1 2 mile 723 peo | ple | | | | | | |
| 2 3 mile 211 pec | , pie | | | | | | |
| 3-4 mle 230 peo | ple | | | | | | |

POTENTIAL HAZARDOUS WASTE SITE

L IDENTIFICATION

| SEPA | | TE INSPECTION I | REPORT D ENVIRONMENTAL I | 171 | NA |
|--|--|--|---|-------------------------|--|
| | | MOGRAPHIC AN | D ENVIRONMENTAL | 77 | 7 18001021 |
| VI ENVIRONMENTAL INFORMA 01 PERMEABILITY OF UNSATURATED Z | | | | | |
| | | | | | A-9 |
| □ A 10-6 - 10- | 8 cm/sec | 5 cm/sec EC 10- | - 10 ⁻³ cm/sec ⊔ D G | REATER THAN 1 | 0 ⁻³ cm/sec |
| 02 PERMEABILITY OF BEDROCK (Chec | one) | | | | |
| ☐ A IMPERN (Less then 1 | MEABLE B RELATIVELY 10 ⁻⁶ cm/sec) (10 ⁻⁴ - 10 ⁻⁶ | 'IMPERMEABLE D C | RELATIVELY PERMEABL (10 ⁻² - 10 ⁻⁴ caveec) | | PERMEABLE ten 10 ⁻² crivsec; |
| 03 DEPTH TO BEDROCK | 04 DEPTH OF CONTAMINATED S | OIL ZONE | 05 SOIL pH | T | * |
| appeax 40 (ft) | unknown | (n) | | | |
| 06 NET PRECIPITATION | 07 ONE YEAR 24 HOUR RAINFAL | | PE DIRECTION (| DE SITE SI OBE | TERRAIN AVERAGE SLOPE |
| 34 06(in) | 26 | (in) | % | DF SITE SCOPE | % |
| 09 FLOOD POTENTIAL | 10 | | | | |
| SITE IS IN 100 YEAR FLO | | E IS ON BARRIER ISLAI | ND COASTAL HIGH HAZAF | RD AREA RIVERI | NE FLOODWAY |
| 11 DISTANCE TO WETLANDS (5 acre material | | 1 | ANCE TO CRITICAL HABITAT (| of endangered species) | |
| ESTUARINE | OTHER (R | verine) | _ | <u> </u> | (mi) |
| A(mi) | B 200 J | न्तर्ग । | ENDANGERED SPECIES _ | | |
| 13 LAND USE IN VICINITY | | | | | |
| DISTANCE TO | | | | | |
| COMMERCIAL/INDUSTR | | REAS NATIONAL/STA S OR WILDLIFE RESEF | | AGRICULTUR E AG LAND | RAL LANDS AG LAND |
| | | £1 | : | | |
| A(mi) | B _ | 200 jrti) | c | (mi) | D(mi) |
| A SOURCES OF INFORMATION | Gravel | 1/4 MILE | JO DAVIESS SERVICE COMI | PANY | E A A Bay Stremen |
| VII SOURCES OF INFORMATION | N (Cite specific references, e.g. state file | z sample analysis, reports) | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| POTENTIAL HAZARDOUS WASTE SITE | | ASTE SITE | | 01 STATE 02 SITE NUMBER | | | | | | | |
|--------------------------------|---------------|----------------------------------|----------------------|-------------------------|--|-------------|---------------------|----------|--|--|--|
| \$EPA | | | SITE IN | SPECTION REI | PORT | | NA | | | | |
| 77 —171 | | PA | RT6 SAMPL | E AND FIELD IN | FORMATION | | 8001 | 0217 | | | |
| IL SAMPLES TAKEN | | | | | | | <u> </u> | | | | |
| SAMPLE TYPE | · | 1 NUMBER OF SAMPLES TAKEN | 02 SAMPLES SE | NT TO | | | 03 ESTIMA RESULT | TED DATE | | | |
| GROUNDWATER | | 6 Monitor Wells 2 Residential | IEPA | Div sion | of Laborator e | 3 | JAN | 1996 | | | |
| SURFACE WATER | | 5 | TEPA | Division | of Laboratone | .3 | JAN | 1996 | | | |
| WASTE | | | | | | | | | | | |
| AIR | | | | | | | | | | | |
| RUNOFF | | | | | | | | | | | |
| SPILL | | | | | | | | | | | |
| SOIL | | 7 soil 5 sediment | IEPA | Dysien | of Laboratori | 67 | JAN | 1996 | | | |
| VEGETATION | | | | | | | | | | | |
| OTHER | | | | _ | | | _ | | | | |
| III. FIELD MEASURE | MENTS TAK | EN | | _ | | | | | | | |
| 01 TYPE | ľ | 02 COMMENTS | | | | | | | | | |
| | | | - | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| IV PHOTOGRAPHS | AND MAPS | | | | <u> </u> | | | | | | |
| 01 TYPE GROUND | AERIAL | (| 2 IN CUSTODY O | F Illinois | EPA (Name of organization or individual) | | | | | | |
| | 04 LOCATION C | - | | | | | | | | | |
| YES | INTE | GRATED A. | SSESSMEN | T REPORT | | | | | | | |
| V OTHER FIELD DA | TA COLLEC | TED (Provide narrative descr | ription) | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Ī | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| VI SOURCES OF INI | FORMATION | (Cite specific references. g | stat files sample ar | nalysis reports) | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

EPA FORM 2070-13 (7-81)

| \$EPA | | POTENTIAL HAZ SITE INSPI PART 7 OW | ICATION 2 SITE NUMBER MA | | |
|--|-------------|--|---|--------------------|---------------|
| II. CURRENT OWNER(S) | | | PARENT COMPANY (# applicable) | | |
| DI NAME Jo Daviess Service C DISTREET ADDRESS IP O BOX RFD (C) | | 02 D+B NUMBER | OB NAME | | 09 D+8 NUMBER |
| 03 STREET ADDRESS (PO Box RFD enc.) PO Box 249 | | 04 SIC CODE | 10 STREET ADDRESS (P O Box, RFD etc.) | | 11 SIC CODE |
| 05 CITY | 08 STATE | 07 ZIP CODE | 12 CITY | 13 STATE | 14 ZIP CODE |
| Elzabeth | IL | 61028 | | | |
| O1 NAME | | 02 D+8 NUMBER | 08 NAME | | 09 D+B NUMBER |
| 03 STREET ADDRESS (P O Box RFD etc.) | | 04 SIC CODE | 10 STREET ADDRESS (P O Box RFD + etc.) | <u> </u> | 11 SIC CODE |
| 05 CITY | 06 STATE | 07 ZIP CODE | 12 CITY | 13 STATE | 14 ZIP CODE |
| 01 NAME | | 02 D+B NUMBER | OS NAME | | 09 D+B NUMBER |
| 03 STREET ADDRESS (P O Bo RFD etc.) | <u> </u> | 04 SIC CODE | 10 STREET ADDRESS (P O Box, RFD # otc.) | | 11SIC CODE |
| 05 CITY | 06 STATE | 07 ZIP CODE | 12 CITY | 13 STATE | 14 ZIP CODE |
| O1 NAME | | 02 D+B NUMBER | O8 NAME | | 09 D+B NUMBER |
| O3 STREET ADDRESS (P O 80x RFD etc.) | | 04 SIC CODE | 10 STREET ADDRESS (P O Box RFD # etc.) | | 11 SIC CODE |
| 05 CITY | 06 STATE | 07 ZIP CODE | 12 CITY | 13 STATE | 14 ZIP CODE |
| III PREVIOUS OWNER(S) (List most recent first) | | | IV REALTY OWNER(S) (If applicable dat | most recent first) | |
| 01 NAME Northwestern III Gas & E | lectric | 02 D+B NUMBER | 01 NAME | | 02 D+B NUMBER |
| 03 STREET ADDRESS IP O BOX RFD at ; | | 04 SIC CODE | 03 STREET ADDRESS (P O 80x RFO tc) | | 04 SIC CODE |
| 05 CITY | 08 STATE | 07 ZIP CODE | 05 CITY | 08 STATE | 07 ZIP CODE |
| OI NAME Northwestern III Utilis | ies | 02 D+B NUMBER | 01 NAME | | 02 D+B NUMBER |
| O3 STREET ADDRESS (P O Box RFD etc.) | | 04 SIC CODE | 03 STREET ADDRESS (P O Box RFD # etc.) | | 04 SIC CODE |
| OS CITY | OS STATE | 07 ZIP CODE | 05 CITY | 06 STATE | 07 ZIP CODE |
| O1 NAME | | 02 D+B NUMBER | 01 NAME | | 02 D+B NUMBER |
| OS STREET ADDRESS (PO BOX RFD BOX) | / | 04 SIC CODE | O3 STREET ADDRESS (P O Box RFD # etc.) | | 04 SIC CODE |
| Unknown Oscary Salena | 08 STATE | 07 ZIP CODE | 05 CITY | 06 STATE | 07 ZIP CODE |
| V SOURCES OF INFORMATION (Cite appendix | references. | e.g stat files sample analys. | is reports) | | |
| *other previous site own | ers c | late back | to 1856 | | |
| EPA FORM 2070-13 (7 81) | | | | | |

ILT 180010217

| POTENTIAL HAZARDOUS WAS | | | RDOUS WASTE SITE | | L IDENTIFICATION | | | | |
|----------------------------|-----------------------------|-----------------|------------------|-------------------------------|---|---------|-------------------------|--|-------------|
| \$EPA | | • - | | | TION REPORT | | 01 STATE 02 SITE NUMBER | | |
| ALIA | | | P/ | - | OR INFORMATION | Ŀ | IL | | <u> </u> |
| II. CURRENT OPERATO | 'AB | | — | | OPERATOR S PARENT COMPANY | m ennik | | | |
| 01 NAME | JK (Provide a camerant from | | 102 | D+8 NUMBER | 10 NAME | | | T1 1 C | D+8 NUMBER |
| O TOME | | | | UTB NUMBER | | | | | |
| 03 STREET ADDRESS (P O & | lox RFD etc.) | | <u> </u> | 04 SIC CODE | 12 STREET ADDRESS (P O Box, RFD # etc.) | | | | 13 SIC CODE |
| 05 CITY | | 06 STATE | 07 | ZIP CODE | 14 CITY | | 15 STATE | 16 2 | IP CODE |
| 08 YEARS OF OPERATION | 09 NAME OF OWNER | - | | | | | | | |
| III PREVIOUS OPERAT | TOR(S) (List most recent // | irst provide on | wy # c | Sillerent from owner) | PREVIOUS OPERATORS PARENT C | OMP | ANIES (# | | cable) |
| 01 NAME | | | _ | D+B NUMBER | 10 NAME | | | | D+8 NUMBER |
| 03 STREET ADDRESS (P O & | DJL, RFD # etc.) | | Ή | 04 SIC CODE | 12 STREET ADDRESS (P O Box RFD etc.) | | | | 13 SIC CODE |
| 05 CITY | | 06 STATE | 07 | ZIP CODE | 14 CITY | | 15 STATE | 16 | ZIP CODE |
| 08 YEARS OF OPERATION | 09 NAME OF OWNER C | L JURING THE | SPE | FRIOD | | | | <u>. </u> | |
| 01 NAME | | | 02 1 | D+B NUMBER | 10 NAME | | | 116 | D+8 NUMBER |
| 03 STREET ADDRESS (P O Bo. | ıx RFD Ø otc) | 4 | _ | 04 SIC CODE | 12 STREET ADDRESS (P O Box RFD # etc.) | | | | 13 SIC CODE |
| 05 CITY | | 06 STATE | 07 | ZIP CODE | 14 CITY | | 15 STATE | 16 Z | IP CODE |
| 08 YEARS OF OPERATION | 09 NAME OF OWNER D | DURING THE | IS PE | ERIOD | | | | | |
| 01 NAME | | | 02 | D+8 NUMBER | 10 NAME | | | 11 D+B NUMBER | |
| 03 STREET ADDRESS (P O Box | us, RFD # etc.) | | | 04 SIC CODE | 12 STREET ADDRESS (P O Box, RFD # etc.) | | | ٦ | 13 SIC CODE |
| 05 CITY | | 08 STATE | 07 | ZIP CODE | 14 CITY | | 15 STATE | 162 | ZIP CODE |
| 08 YEARS OF OPERATION | 09 NAME OF OWNER C | DURING THE | S PE | ERICO | | | <u> </u> | | |
| IV SOURCES OF INFO | RMATION (Cite apocific | c references. | <u> </u> | state files, sample analysis, | reporte) | | | | |
| | | | - | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| ı | | | | | | | | | į |
| I | | | | | | | | | |
| . | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

IIT 180010217

| ŞEPA | POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT | | | | | | |
|--|---|-------|------------------------------|--|----------|----------|---------------|
| | PART | 9 G | | ANSPORTER INFORMATION | IL | N | <u> </u> |
| II ON-SITE GENERATOR | | | | | | | - |
| 01 NAME | | 02 0 | +B NUMBER | 1 | | | |
| Jo Daviess Service Com | pany | | | j | | | |
| 03 STREET ADDRESS (P O Box RFD # etc.) | | | 04 SIC CODE |] | | | |
| PO Box 249 | 08 STATE | 107 7 | TR CODE | - | | | |
| Elizabeth | IL | 1 | 1028 | | | | |
| III OFF-SITE GENERATOR(S) | | | | <u> </u> | | | |
| 01 NAME | | 02 0 | +B NUMBER | 01 NAME | | 02 [| D+B NUMBER |
| | | L | | | | l | |
| 03 STREET ADDRESS (P O Box RFD etc.) | - | | 04 SIC CODE | 03 STREET ADDRESS (P O Box RFD etc.) | | | 04 SIC CODE |
| 05 CITY | 06 STATE | 07 Z | IP CODE | 05 CITY | 06 STATE | 07 2 | ZIP CODE |
| O1 NAME | | 02 0 | +8 NUMBER | 01 NAME | | 02 (| D+B NUMBER |
| 03 STREET ADDRESS (P O Box RFD etc.) | | 1 | 04 SIC CODE | O3 STREET ADDRESS (P O Box RFD # etc.) | | | 04 SIC CODE |
| OS CITY | OB STATE | 07 Z | IP CODE | 05 CITY | O6 STATE | 07 2 | ZIP CODE |
| IV TRANSPORTER(S) | <u> </u> | | | | | | |
| 01 NAME | | 020 | +B NUMBER | 01 NAME | | 02 0 |)+B NUMBER |
| 03 STREET ADDRESS (P O Box RFD # etc.) | | | 04 SIC CODE | 03 STREET ADDRESS (P O Box RFD # efc.) | | | 04 SIC CODE |
| OS CITY | 06 STATE | 07 Z | IP CODE | 05 CITY | O6 STATE | 07 2 | ZIP CODE |
| 01 NAME | <u>. </u> | 02 D | +B NUMBER | 01 NAME | | 02 0 | O+B NUMBER |
| 03 STREET ADDRESS (P O Box RFD # 1c) | | | 04 SIC CODE | 03 STREET ADDRESS (P O Box RFD # rc) | · | • | 04 SIC CODE |
| OS CITY | 06 STATE | 07 Z | IP CODE | 05 CITY | 06 STATE | 07 2 | ZIP CODE |
| V SOURCES OF INFORMATION (Cit specific | reference | | ate file sample analysis, re | Don's! | 1 | <u> </u> | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| EPA FORM 2070-13 (7-81) | | | | | | | |

ILT 1800102M

| | POTENTIAL HAZARDOUS WASTE SITE | _ | L IDENTIFICATION |
|---|---|-----------|--------------------------------|
| \$EPA | SITE INSPECTION REPORT PART 10 PAST RESPONSE ACTIVITIES | | 01 STATE 02 SITE NUMBER ZL NA |
| II. PAST RESPONSE ACTIVITIES | | | |
| 01 □ A WATER SUPPLY CLOSED | 02 DATE | 03 AGENCY | |
| 04 DESCRIPTION | | | |
| 01 B TEMPORARY WATER SUPPLY PRO 04 DESCRIPTION | | | |
| 01 C PERMANENT WATER SUPPLY PRO 04 DESCRIPTION | OVIDED 02 DATE | 03 AGENCY | |
| 01 D SPILLED MATERIAL REMOVED 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 □ E CONTAMINATED SOIL REMOVED 04 DESCRIPTION | O2 DATE | 03 AGENCY | |
| 01 □ F WASTE REPACKAGED 04 DESCRIPTION | 02 DATE | | |
| 01 G WASTE DISPOSED ELSEWHERE 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 - H ON SITE BURIAL 04 DESCRIPTION | O2 DATE | | |
| 01 In situ Chemical Treatment 04 Description | 02 DATE | 03 AGENCY | |
| 01 D J IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 D K IN SITU PHYSICAL TREATMENT 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 DL ENCAPSULATION 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 DM EMERGENCY WASTE TREATMENT 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 N CUTOFF WALLS 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 O EMERGENCY DIKING/SURFACE W. O4 DESCRIPTION | ATER DIVERSION 02 DATE | 03 AGENCY | |
| 01 P CUTOFF TRENCHES/SUMP 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 Q SUBSURFACE CUTOFF WALL 04 DESCRIPTION | 02 DATE | 03 AGENCY | |

EPA FORM 2070-13 (7-81)

ILT 180010217

| AFBA | POTENTIAL HAZARDOUS WASTE SITE | | L IDENTIFICATION 01 STATE 02 SITE NUMBER | |
|---|--|-----------|--|--|
| \$EPA | SITE INSPECTION REPORT PART 10 PAST RESPONSE ACTIVITIES | | IL NA | |
| II PAST RESPONSE ACTIVITIES (Continued) | | | | |
| 01 R BARRIER WALLS CONSTRUCTED 04 DESCRIPTION | 02 DATE | 03 AGENCY | | |
| 01 S CAPPING/COVERING 04 DESCRIPTION | O2 DATE | 03 AGENCY | | |
| 01 T BULK TANKAGE REPAIRED 04 DESCRIPTION | O2 DATE | 03 AGENCY | | |
| 01 D U GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION | 02 DATE | 03 AGENCY | | |
| 01 D V BOTTOM SEALED 04 DESCRIPTION | 02 DATE | 03 AGENCY | | |
| 01 D W GAS CONTROL 04 DESCRIPTION | 02 DATE | 03 AGENCY | | |
| 01 □ X FIRE CONTROL 04 DESCRIPTION | 02 DATE | 03 AGENCY | | |
| 01 DY LEACHATE TREATMENT 04 DESCRIPTION | 02 DATE | 03 AGENCY | | |
| 01 Z AREA EVACUATED 04 DESCRIPTION | 02 DATE | 03 AGENCY | | |
| 01 □ 1 ACCESS TO SITE RESTRICTED 04 DESCRIPTION | 02 DATE | 03 AGENCY | | |
| 01 2 POPULATION RELOCATED 04 DESCRIPTION | 02 DATE | 03 AGENCY | | |
| 01 3 3 OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION | 02 DATE Summer 1993 | 03 AGENCY | Dahl 4 Associated TOSC | |
| Ste Assessment performe | d in 1993 by Dahl & Ass | ociate : | working for | |
| JOSC A summary Report Section 23. | of activities is described | in In | tegrated Assessme | |
| Trefort Section 2 3. | | | | |
| III SOURCES OF INFORMATION (Cite specific reference g state files sample analysis, reports) | | | | |
| | | | | |
| | | | Į | |

ILT 180010217

| ŞEPA | POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT | I. IDENTIFICATION | | |
|--|---|-------------------------|--|--|
| | | 01 STATE 02 SITE NUMBER | | |
| | PART 11 ENFORCEMENT INFORMATION | | | |
| II ENFORCEMENT INFORMATION | | | | |
| 01 PAST REGULATORY/ENFORCEMENT ACTION - YES | ■ NO | | | |
| 02 DESCRIPTION OF FEDERAL, STATE LOCAL REGULATORY/ENFORCEMENT ACTION | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| III SOURCES OF INFORMATION (Cite specific referen | secret & a. state files comple souls (s. march) | | | |
| The second state of the se | | | | |
| | | | | |
| | | | | |

